

19980121.qrp v00\_n977.qrs.980121

Date: Wed, 21 Jan 1998 19:03:21 EST  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 977

QRP-L Digest 977

Topics covered in this issue include:

- 1) [1520] Re: FYBO '98 @ T minus 17 days & counting  
by n7mfb@juno.com (Bill Todd)
- 2) [1521] Re: QRP ARCI FDIIM 98 QRP Conference Announcement  
by "Robert J. Gobrick" <rgobrick@worldnet.att.net>
- 3) [1522] Re: Raspy Morse sigs from afar...  
by Chris Cartwright <ccart@dns.vidtel.com>
- 4) [1523] Re: Cold WX Batteries  
by Laura Halliday <ve7ldh@direct.ca>
- 5) [1524] jokes  
by Bigbob97 <Bigbob97@aol.com>
- 6) [1525] Fwd: Re: Searching Back issues.....  
by "KA5T Larry Wise" <lewise@inetport.com>
- 7) [1526] QRP Plus, Sold  
by RobCap <RobCap@aol.com>
- 8) [1527] fox  
by "Dean Marzocca" <n2tnn@ifu.net>
- 9) [1528] FOX #2 was a tough one, Dean..  
by "Roger Whitaker [K9LJB]" <k9ljb@iname.com>
- 10) [1529] AL7FS to NJ and then to GA. (1/26-2/7)  
by "Larsen, Jim" <JLarsen@alascom.att.com>
- 11) [1530] Re: preventing destruction of gel cell?  
by Jade Account <jadepro@jadeprod.com>
- 12) [1531] KE3FL Web page  
by ke3fl@juno.com
- 13) [1532] Re: x  
by RangerSF5 <RangerSF5@aol.com>
- 14) [1533] RE: Schematic Files etc.  
by Adrian Weiss <aweiss@sunflowr.usd.edu>
- 15) [1534] Re: EleCraft K2 Transceiver Info  
by Rod Logsdon <bike4life@bikerider.com>
- 16) [1535] TROUBLESHOOT RCVR WITH HISS  
by LYN WILLIAMS <designserv@ipass.net>
- 17) [1536] Re: Receiver trouble shooting (LONG)  
by Rod Logsdon <bike4life@bikerider.com>
- 18) [1537] Re: Fox again 1-21-98  
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 19) [1538] Fox results 1-21-98

- by "Dean Marzocca" <n2tnn@ifu.net>
- 20) [1539] W2UX FOX Log - 1/20/98 - First Revision  
by "Gary M. - W2UX" <mail4gary@worldnet.att.net>
- 21) [1540] QRP Hall of Fame, last call  
by Mike Czuhajewski <wa8mcq@u1.abs.net>
- 22) [1541] Re: Fox results 1-21-98  
by "Dean Marzocca" <n2tnn@ifu.net>
- 23) [1542] Re: W2UX FOX Log & Comments - 1/20/98  
by talljazz@teleport.com (Dan Presley)
- 24) [1543] QRP supper Thurs, Laurel, MD  
by Mike Czuhajewski <wa8mcq@u1.abs.net>
- 25) [1544] Searching Back issues.....  
by "Robert J. Gobrick" <rgobrick@worldnet.att.net>
- 26) [1545] Re: GQRP - Make old coils  
by Paul Harden <pharden@aoc.nrao.edu>
- 27) [1546] Re: GQRP - Make old coils  
by Monte Stark <ku7y@sage.dri.edu>
- 28) [1547] Keyer paddle convention  
by John Fletcher <johnf@innotts.co.uk>
- 29) [1548] Re: Keyer wiring / Odd Human Features  
by Bob Patten <n4bp@bc.seflin.org>
- 30) [1549] Re: jokes  
by Bob Patten <n4bp@bc.seflin.org>
- 31) [1550] CORE WINDING NEED INFO  
by RangerSF5 <RangerSF5@aol.com>
- 32) [1551] Receiver Hiss  
by RangerSF5 <RangerSF5@aol.com>
- 33) [1552] Sierra 40M Band Module - Lack of Sensitivity  
by lenriquez@pacific.simoco.com (Luke Enriquez)
- 34) [1553] Keying and wiring conventions  
by Arjen Raateland <Arjen.Raateland@vyh.fi>
- 35) [1554] Re: Keying and wiring conventions  
by Bob Patten <n4bp@bc.seflin.org>
- 36) [1555] F.S. RF components  
by Paolo Sassoli <Paolo.Sassoli@italtel.it>
- 37) [1556] Re: preventing destruction of gel cell?  
by k5zty@juno.com
- 38) [1557] Re: FINALE: outback make-do antennas  
by k5zty@juno.com
- 39) [1558] Re: Keyer wiring convention  
by Michael Neverdosky <MichaelN@cycat.com>
- 40) [1559] ANNOUNCING: Ten-Tec T-kits 10% off group purchase!  
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
- 41) [1560] Re: Circad Question  
by WB0NZM <WB0NZM@aol.com>
- 42) [1561] Re: Fwd: Re: Searching Back issues.....  
by "Tracy, Michael, KC1SX" <mtracy@arrl.org>
- 43) [1562] CLOSING DATE of Ten-Tec Group Buy!

by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>  
44) [1563] Re: CORE WINDING NEED INFO  
by Stanley Wilson <microres@crl.com>  
45) [1564] RE: Fox results 1-21-98  
by "Rattray, Bruce" <Rattray@siast.sk.ca>  
46) [1565] TenTec 1254 Specs  
by adams@chuck.dallas.sgi.com (Chuck Adams)  
47) [1566] TT1254 Pricing  
by adams@chuck.dallas.sgi.com (Chuck Adams)  
48) [1567] Re: Keyer wiring convention  
by Monte Stark <ku7y@sage.dri.edu>  
49) [1568] Re: Keyers w/Analog Speed Control?  
by "Jon P. Beckett" <jbeckett@illuminet.net>  
50) [1569] Email Address Help  
by Brad Mugleston <bmug@gwl.com>  
51) [1570] Re: Keyer wiring convention  
by "Roger Whitaker [K9LJB]" <k9ljb@iname.com>  
52) [1571] help getting started  
by eakwik@mail.hac.com  
53) [1572] Re: Keyer wiring convention  
by Monte Stark <ku7y@sage.dri.edu>  
54) [1573] Re: FYBO 98 / NA CW Sprint Collision  
by "Buck, Preston D" <BuckPD@corning.com>  
55) [1574] Email Address Help  
by Brad Mugleston <bmug@gwl.com>  
56) [1575] Re: help getting started  
by Vic Rosenthal <rakefet@rakefet.com>  
57) [1576] Small Wonders WM-20 SSB mods & tips?  
by David Ek <ekdave@earthlink.net>  
58) [1577] Re: preventing destruction of gel cell?  
by Arjen Raateland <Arjen.Raateland@vyh.fi>  
59) [1578] Elmer Projects (long)  
by ji3m@maxwell.com (James R. Duffey)  
60) [1579] Re: Email Address Help / Big Brother  
by Joe Gervais <vole@primenet.com>  
61) [1580]  
by Dan Tayloe-P26412 <Dan\_Tayloe-P26412@email.mot.com>  
62) [1581] Re: Elmer Projects  
by Niel Skousen <nskousen@scientech.com>  
63) [1582] 19" relay racks to sell or swap and warranty humor.  
by "Bob Duckworth" <wb4mnf@atl.org>  
64) [1583] Re: fox  
by Ed Loranger <we6w@qsl.net>  
65) [1584] RE: Sorry Dean! + Effects of "wet" twinlead.  
by Adrian Weiss <aweiss@sunflowr.usd.edu>  
66) [1585] Fox 1-21-98  
by "Bob Kellogg" <ae4ic@nr.infi.net>  
67) [1586] Thanks

by "C.D. Rakes" <cdrakes@ipa.net>  
68) [1587] Dayton Rooms  
by George Dobbs <g3rjv@gqrp.demon.co.uk>  
69) [1588] Re: Fox 1-21-98  
by "Michael A. Gipe" <mgipe@reliablemeters.com>  
70) [1589] Re: Elmer Projects  
by Joe Gervais <vole@primenet.com>  
71) [1590] Re: Keyer wiring convention  
by Ed Loranger <we6w@qsl.net>  
72) [1591] 2N2222 audio amplifier - no transformers!  
by Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>  
73) [1592] Re: Elmer Projects  
by Monte Stark <ku7y@sage.dri.edu>  
74) [1593] Dayton FDIM Rooms  
by Ed Manuel <n5em@flash.net>  
75) [1594] RE: Elmer Projects  
by "Larsen, Jim" <JLarsen@alascom.att.com>  
76) [1595] SST Frequency Range Modification  
by "Paul Christensen" <paulc@mediaone.net>  
77) [1596] Re: Elmer Projects  
by Ed Loranger <we6w@qsl.net>  
78) [1597] Wilderness Norcal 40 A [For Sale]  
by "Jeff M. Gold" <JGold@tntech.edu>  
79) [1598] Re: Elmer Projects  
by Bob Bayha <rbayha@ix.netcom.com>  
80) [1599] FDIM  
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)  
81) [1600] Ft Tuthill '98..July 24-26  
by Bob Hightower <ki7mn@dancris.com>  
82) [1601] Mechanical Filter Progress; Bazooka Antenna  
by Ed Loranger <we6w@qsl.net>  
83) [1602] TNC Software  
by sgordon1@ibm.net  
84) [1603] Circad in DOS  
by Mel Evans <MelEvansGM6JAG@compuserve.com>  
85) [1604] Re: help getting started  
by RangerSF5 <RangerSF5@aol.com>  
86) [1605] Re: Dayton Rooms  
by K5BDZ <K5BDZ@aol.com>  
87) [1606] Easy audio filtering for the Pixie  
by Charlie Panek <charlier@lsid.hp.com>  
88) [1607] FS: QRP Stuff  
by "N4ELM" <n4elm@ipass.net>  
89) [1608] kl7jaf where are u ????  
by jdenison@morelr.com (JOEL DENISON)  
90) [1609] Re: FDIM  
by Ed Manuel <n5em@flash.net>  
91) [1610] Re: Pixie on 30m?

by Charlie Panek <charlier@lsid.hp.com>  
92) [1611] Re: Easy audio filtering for the Pixie  
by K5BDZ <K5BDZ@aol.com>  
93) [1612] Battery Charging Info  
by Andy Fox <foxes@theriver.com>

-----  
Date: Tue, 20 Jan 1998 19:26:21 EST  
From: n7mfb@juno.com (Bill Todd)  
To: wa5whn@juno.com  
Cc: qrp-l@Lehigh.EDU, nwq-l@scn.org  
Subject: [1520] Re: FYBO '98 @ T minus 17 days & counting  
Message-ID: <19980120.162511.4631.1.n7mfb@juno.com>

On Tue, 20 Jan 1998 10:23:29 -0700 wa5whn@juno.com writes:

>  
>qrp-lers,  
>  
> WOW !! Not only do we have FYBO '98 on Feb. 7 & 8, but NA cw Sprint &  
NWQRP digital contest are scheduled that very same weekend.

- - - - -  
H Jay (and the QRP-L)-

It looks like we are going to hold off running the Digital Contest this  
year (from the NW QRP Club). I take all the blame for not organizing it  
in time to promote it properly.

It looks like the 7th and 8th will see plenty of QRP activity to spare  
(hi), so get out there and make some dits! (and dahs too while you're at  
it!).

CUL, Bill-N7MFB  
NW QRP Club

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You don't need to buy Internet access to use free Internet e-mail.  
Get completely free e-mail from Juno at <http://www.juno.com>  
Or call Juno at (800) 654-JUNO [654-5866]

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Date: Tue, 20 Jan 1998 18:36:11 -0600  
From: "Robert J. Gobrick" <rgobrick@worldnet.att.net>  
To: qrp-l@Lehigh.EDU

Cc: Steve Hideg N8HSC <Steve.Hideg.1@nd.edu>  
Subject: [1521] Re: QRP ARCI FDIM 98 QRP Conference Announcement  
Message-ID: <3.0.32.19980120175222.00c37a00@postoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Gang,

Steve Hideg N8HSC, our QRP-L Website Meister has just set up a great new section on the QRP-L webpage for FDIM 98. If you are not familiar with the history of FDIM then check out the website for photos etc. from previous years of "Four Days In May" QRP Symposiums.

I hope to get a link of this page over to the Dayton Hamvention webpage. Also Steve is going to assist the FDIM team with posting digital images to the page for this year's event. For you folks attending that received from Santa a new digital camera, think of bringing it along with you for the QRP ARCI FDIM QRP Symposium, Banquet, Hospitality Socials and the NorCal building contest.

The Excitement is Building!

73/72 Bob N0EB

PS: WE WILL NOT be posting Dayton weather reports this year - now that Hamvention is officially in May the weather in Dayton will always be delightful - this was PROVEN last year - hi.

FDIM 98 Info - <<http://qrp.cc.nd.edu/qrp-l/dayton/fdim98.html>>

--Bob Gobrick - N0EB & V01DRB (ex WA6ERB, VE2DRB) Stillwater, MN  
--Internet: rgob@tengizchevroil.com and rgobrick@worldnet.att.net

-----  
Date: Tue, 20 Jan 1998 20:51:55 -0500 (EST)  
From: Chris Cartwright <ccart@dns.vidtel.com>  
To: QRP Reflector <qrp-l@Lehigh.EDU>  
Subject: [1522] Re: Raspy Morse sigs from afar...  
Message-ID: <Pine.LNX.3.93.980120204752.6315A-100000@dns.vidtel.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 20 Jan 1998, Ed Loranger wrote:

> You should have heard all this raspy/buzzing code -- like a melee  
> in a bar. I sent ONE QRZ? de we6w and they all disappeared!

Sounds like it's the super secret "TX-AZ Anti CA Fox Alliance" frequency and your "6" call tipped them right off! :-)

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --  
-- N3XRV ARRL-VE QRP WAS 28/13(w/c) | http://dns.vidtel.com/~ccart --  
-- QRP-L #655 NORCAL #1891 QRP-ARCI #???? NJ-QRP #105 LIQRP #???? MDmW #5 --

-----  
Date: Tue, 20 Jan 1998 16:49:04 -0800  
From: Laura Halliday <ve7ldh@direct.ca>  
To: qrp-l@Lehigh.EDU  
Subject: [1523] Re: Cold WX Batteries  
Message-ID: <34C54600.4108609C@direct.ca>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Steven Weber wrote:

> Maybe it's about time we design a rig that runs on 6 volts.  
> A Rx that runs on 3 V would be even better.

3.3 volts is all the rage in professional circles. Designers would like to push things still lower - especially those creating ever-denser chips with ever-smaller transistors - but the physics of silicon junctions limit just how low they can go.

There was a 3 volt micropower receiver in \_ham radio\_ eons ago. We should be able to do \*much\* better today.

...laura (if you want it to go to the list, perhaps you should send it to the list. blush... :-)

-----  
Date: Tue, 20 Jan 1998 19:59:21 EST  
From: Bigbob97 <Bigbob97@aol.com>  
To: QRP-L@Lehigh.EDU  
Subject: [1524] jokes  
Message-ID: <2198a8e.34c5486b@aol.com>  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Sorry folks.

I would like to apologize for hitting the wrong button and unintentionally forwarding a list of internet jokes to this list - surely was not meant and not nice. They were meant for my brother in law. Again, very sorry - and embarrassed.

Bob WB2DHK

-----  
Date: Wed, 21 Jan 98 01:00:30  
From: "KA5T Larry Wise" <lewise@inetport.com>  
To: "qrp" <qrp-1@Lehigh.EDU>  
Subject: [1525] Fwd: Re: Searching Back issues.....  
Message-ID: <199801210103.TAA14277@admin.inetport.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Gang:

Here is a response to my previous post that may be of interest to some of you:

Larry KA5T

=====BEGIN FORWARDED MESSAGE=====

>Date: Tue, 20 Jan 1998 17:44:52 -0500  
>From: Glenn Swanson <gswanson@arrl.org>  
>To: lewise@inetport.com  
>Subject: Re: Searching Back issues.....  
>

Hello Larry,

You might try the ARRL's "TIS Find" software that's freely available for downloading via the ARRLWeb or it's mirror repositories for software. Among other things, TIS Find had a QST index database that goes back to somewhere around 1915. There's also a QST "Product Review" database, too. Here's the URL where you can download the free 1998 ARRL Handbook software that includes TIS Find: <http://www.arrl.org/notes/hbk/>

"The companion software for the 1998 ARRL Handbook is provided here in a ZIP file.[Includes TIS Find.] To install the software, extract the ZIP file to a temporary directory on your hard drive. In extracting the file, be sure to specify use of directory names. (For PKUNZIP, this



means use the -d option.) The README.TXT file located in the ZIP file gives further information.

Download the software, file: hbk98.zip, 1,461,471 bytes."

Please feel free to post this message if you think others will find this information useful, Larry.

Also see this page: <http://www.arrl.org/quick.html#ARRLFTP> for QST, QEX and Other Article Indexes at ARRL FTP. These listings are for the oak.oakland.edu site; if you access one of the mirrors instead, the first part of the directory names will differ:

ASCII QST indexes from 1989 through 1995:  
<ftp://oak.oakland.edu/pub/hamradio/arrl/infoserv/qst/>

ASCII QEX indexes from 1988 through 1995  
<ftp://oak.oakland.edu/pub/hamradio/arrl/infoserv/qex/>

ASCII bibliographies on over 100 subjects,  
including one on Heath gear:  
<ftp://oak.oakland.edu/pub/hamradio/arrl/infoserv/bibliog/>

QST Product Review index from 1970 to 1995:  
<ftp://oak.oakland.edu/pub/hamradio/arrl/infoserv/tech/prodrev.txt>

QSTSEARCH, an index search program for 1977 though 1992:  
<ftp://oak.oakland.edu/pub/hamradio/arrl/bbs/general/qstsearc.zip>

Hope this helps!

Sincere 73,  
Glenn Swanson, KB1GW  
ARRL Educational Activities Department  
E-mail: [kb1gw@arrl.org](mailto:kb1gw@arrl.org)

=====END FORWARDED MESSAGE=====

-----  
Date: Tue, 20 Jan 1998 19:40:41 EST  
From: RobCap <[RobCap@aol.com](mailto:RobCap@aol.com)>  
To: [qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)  
Subject: [1526] QRP Plus, Sold

Message-ID: <92850603.34c54412@aol.com>  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Hi All-

The Index Labs QRP Plus rig that I listed has been sold.

73,

Rob, W3DX

-----  
Date: Tue, 20 Jan 1998 20:46:09 -0500  
From: "Dean Marzocca" <n2tnn@ifu.net>  
To: "QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [1527] fox  
Message-ID: <199801210147.UAA18345@ifu.ifu.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

fox is on 7.037 with no qrm right now

72/73 Dean N2TNN NJ  
n2tnn@ifu.net

-----  
Date: Tue, 20 Jan 1998 20:36:50 -0600  
From: "Roger Whitaker [K9LJB]" <k9ljb@iname.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [1528] FOX #2 was a tough one, Dean..  
Message-ID: <34C55F41.B7A9733C@iname.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I earned this pelt! My noise level was about S-3 starting 2 minutes before fox time. Then there was the SSB on the freq. and the guys tuning up and the guys calling CQ. Went long pspells without hearing the fox at all, but at 0218 he poked his nose out of the noise and QRM and got him. Thanks Dean, I think you had a tough time there, too. Your signal came up after I worked you to about 569 before the digidroid came on at 0230.

Historical fox hunt note: Have any of you ever been on a midwest church fund raising fox hunt? I remember them when I was a kid. On a Saturday afternoon in the winter, the church ladies fix a nice warm meal for the hunters. 50 or more hunters gather and get into the back of trucks which drop them off around the perimeter of the field/woods where the hunt is to be. At a certain time they all begin working their way to an open field in the center where the foxes were surrounded and ran around in the circle. No rifles allowed, needless to say. When somebody on the other side of the circle (maybe 50 yards away) shot, you turned your back just in case there were a few stray pellets. Bounty proceeds to the church. I think I like our QRP fox hunts a little better! I am sure the Fox does. HI!

72 Roger B. Whitaker K9LJB QRP-1 #1403

Remember it's nice to be important,  
but it's more important to be nice.

Home page: <http://www.cityscape.net/~whitaker/>

-----  
Date: Tue, 20 Jan 1998 17:46:14 -0900  
From: "Larsen, Jim" <JLarsen@alascom.att.com>  
To: "'Dean Marzocca'" <n2tnn@ifu.net>  
Cc: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>  
Subject: [1529] AL7FS to NJ and then to GA. (1/26-2/7)  
Message-ID: <D8F0A14EBB6CD11189D4006097E5893A099694@alascomexca.alascom.att.com>  
MIME-Version: 1.0  
Content-Type: text/plain

Hi Dean,

NJ

I will be in New Jersey landing at 10:54 AM (NW Airlines) on Monday the 26th of January.

I am staying at the Holiday Inn Somerset NJ, I-287, 195 Davidson Ave with a phone number of 732-356-1700. I will be there all week and I leave on Sunday, 1 Feb, at 11:25 AM. I am free in the evenings and all day Saturday.

GA

I fly to Atlanta, GA arriving 2/1 at 4:22 PM and stay there until 2/7/98, Saturday. I will be staying at the Residence Inn, 2960 Piedmont Rd NE, with a phone number of 404-239-0677. I will be free in the evenings Sunday through Thursday. Friday evening and Saturday morning I will be at a high school friend's house.

I am trying to decide if I should take my QRP+ with me. It would have to be a carry-on and I also have to carry a laptop. Lots of weight. I probably will decide in the next day or two.

Maybe I will see you and maybe others during my stays in NJ and GA.

73, Jim, AL7FS  
Anchorage, Alaska

> -----Original Message-----  
> From: Dean Marzocca [SMTP:n2tnn@ifu.net]  
> Sent: Tuesday, January 20, 1998 5:07 PM  
> Subject: Re: fox  
>  
> when are u coming out to NJ ???????/  
>  
> 72/73 Dean N2TNN NJ  
> n2tnn@ifu.net  
>

-----  
Date: Tue, 20 Jan 98 21:13:24 PST  
From: Jade Account <jadepro@jadeprod.com>  
To: Arjen.Raateland@vyh.fi, qrp-l@Lehigh.EDU  
Subject: [1530] Re: preventing destruction of gel cell?  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; CHARSET=us-ascii

Hi Arjen:

I'm posting this to the list as well as yourself because you ask some very good questions, some of the best I have seen in a while.

Your questions follow, and my answers are indicated by \*\*\*\*  
The schematic we are discussing is at:

<http://www.jadeprod.com/lovolt.html>

>Hello Dennis,

>Thanks for the tip. I looked at the schematic and printed it. I assume  
>the relay is non-latching. Correct?

\*\*\*\*Correct

>What happens if the charger is in overcharge mode? The relay draws  
>current from the battery and so the charging current will never drop low  
>enough to end the overcharging state?

\*\*\*\*If the battery is large, the 30 MA that the relay draws will affect the  
shutoff point somewhat, but this is not critical. If the battery is small,  
the the current is a significant factor. In this case the etch was layed out  
with several jumpers that are not shown in the schematic on the WEB page. A  
jumper "W4" can be used to change the cutoff current point, or if needed the  
overcharge region can be avoided althogether. Unitrode suggests that a timer  
can be used instead, the signal is available on pin 9 to control this.

>I had this kind of problem when I used a LED and LM3914 voltage  
>indicator on a 2Ah battery being charged in O/C mode. It wouldn't go  
>back to float mode, because the LED circuit would keep the current draw  
>above the limit of 1/10th or what was it again.

\*\*\*\* The current, known as  $I_{oct}$  is equal to  $0.025V$  divided by the value of  
the sense resistance. In our controller this would be  $0.5\ \Omega$  for the 1/2A  
mode and  $0.25\ \Omega$  for the 1A mode; which means 50MA for the 1/2A and 100MA  
for the 1A mode. A battery in good shape will usually be well under these  
numbers when floating. As they age I have seen this current increase.

>Perhaps O/C mode is not allowed with this protection circuit.

\*\*\*\* See previous.

>Using the trickle output is neat, but the protection doesn't work when  
>the charger isn't connected, I suppose.

\*\*\*\*In this case the protection (reverse battery) is still there because of  
the PTC device. The Low Voltage protection still works too because diode D9  
keeps the circuit alive until the relay drops out.

>What would you say about a latching relay and a comparator circuit with  
>an external buffer stage coupling to the latching relay via a 1000 microF  
>cap and some hysteresis? Not my own idea, but it would be a separate

>unit altogether and should be easy to apply. The latching relay is the  
>hard part for me.

\*\*\*\*I'm not quite certain I know what you mean, but I suspect you could make it work. As others have suggested, a diode to prevent reverse discharge will keep the charger from drawing the battery down. Of course this means you have to increase the charger output to compensate for the diode drop. As far as the load (radio?) is concerned, put a DC powered relay in series with the radio power. Run the relay from an AC powered supply (Wal Wort?). Wire the relay so that it holds itself on. Use a few diodes to create an "OR" circuit that will keep the relay on when the AC power is there or if the battery is up enough. When the AC power goes away, the relay will stay on as long as the battery is up. When the battery starts to drop, the relay will drop and disconnect the radio. You may want some resistance in series with the relay winding to make sure it drops out at around 11 volts.

\*\*\*\*This is just one possibility, there are many others. That is why I added so much circuitry to our battery controller series, these problems seem simple to solve at first, after all, it is only a battery charger. However, when one really looks at the problems involved, they are not easily solved. There are a number of less expensive controllers around but for around the clock "unattended" service they may not be adequate.

>cheerio.

>--

>Arjen Raateland

>Finnish Environment Institute

Once again, great questions Arjen, it is wonderful to see folks thinking about the technology. That is the joy of this list. Seeing all the problems with the power grid here in the Northeast USA this winter should send a message to us all to make sure we're "ready", you never know when those batteries could be needed.

72'

Dennis, K1YPP

-----  
Jane Blanchard, KA1FUN, President -- Dennis Blanchard, K1YPP, Chief Engineer

|           |  |
|-----------|--|
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East Hampstead, NH 03826-0368

See our Web Page: <http://www.jadeprod.com/>

-----

-----

Date: Tue, 20 Jan 1998 21:39:48 -0800  
From: ke3fl@juno.com  
To: QRP-L@Lehigh.EDU  
Subject: [1531] KE3FL Web page  
Message-ID: <19980120.213949.12230.0.ke3fl@juno.com>

This is to let you know that I have placed a web page on at:

[www.qsl.net/ke3fl](http://www.qsl.net/ke3fl)

This is an informational Web site and has almost no graphics. It has the following topics at present:

the current ARES Net News: (changes weekly)  
a short history about: KE3FL

A special VE Test Session will be held on:

Here are some good Ham Web Pages:

Amateur Radio Emergency Service articles: (five of them)

- Before the emergency
- Big and daunting undertaking?
- Emergency check lists
- Do these as a group
- An example

Carroll Amateur Radio Emergency Team files:

- ARES Membership Application
- CARET NET script
- CARET NET Log
- Special Event Log

Traffic Forms Plus:

- ARRL Radiogram TX form
- ARRL Radiogram RX form
- ARRL Numbered Radiograms
- Notes of voice Traffic

Other Articles, QRP et el:

- Adjusting the TS-50 to 5 watts
- Trickle Charger
- Fixing Coax in the field

KE3FL/Circle Software Programs:

- Antenna tuning instructions + design program
- Power Output: Out the Antenna, article and program
- Bandwidth: Of a dipole antenna for wire/pipe size  
and frequency (Comes with Power Output  
program)
- International Morse Code program

These articles can be printed and/or downloaded. The Emergency articles are in HTML the others are simple TXT files. The programs can be downloaded automatically.

Future plans are to include a "feature article" section and have a new article every month.

Please pass this information on to your members, thanks.

73 de KE3FL  
Phil Karras  
H: ke3fl@juno.com  
O: ke3fl@yahoo.com  
O: ke3fl@qsl.net  
W: <http://www.qsl.net/ke3fl>

-----  
Date: Tue, 20 Jan 1998 21:48:56 EST  
From: RangerSF5 <RangerSF5@aol.com>  
To: pmk@JUNO.COM, qrp-1@Lehigh.EDU  
Subject: [1532] Re: x  
Message-ID: <a18923c.34c5621a@aol.com>



Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

In a message dated 98-01-20 20:32:41 EST, you write:

<< Subj: Re: x  
Date: 98-01-20 20:32:41 EST  
From: pmk@juno.com (Patrick M Kvitkauskas)  
To: RangerSF5@AOL.COM

How did you make out Bob ?

Hope you got on OK ?

72/73 de Patrick KD4OBQ

>>

Hi Patrick,  
Well I subscribed ok but it was hell getting a member number  
BOB WB9IOG hung in there with me and he tried it. He sent me an "E" mail and  
told me to type what I see.  
I did and got a member number.  
On my print out sheet, I was unable to notice the space between the "L" and  
"X".  
That was the biggest problem.  
I know everyone was telling me that I was useing the wrong address but the  
mail that was bouncing back was telling me to go to other areas with the  
address you guy's saw.  
Well,  
I got some minor brain damage but I have a number now.  
Thanks to all who responded with tips  
Bob  
WA2HOQ # 1437

-----  
Date: Tue, 20 Jan 1998 21:08:37 -0600 (CST)  
From: Adrian Weiss <aweiss@sunflowr.usd.edu>  
To: QRP-L@fidooo.CC.lehigh.EDU  
Subject: [1533] RE: Schematic Files etc.  
Message-ID: <Pine.SOL.3.94.980120204742.18497A-1000000@sunburst>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi gang:  
I noticed the thread about methods of sending graphic files over  
the INET.

Standard procedure is:

- 1) convert to .JPG format allowing compression
- 2) use UUENCODE shareware program to convert to pureASCII characters. This will add 20-40% to the size of the file, but no matter. Upload to the site. The UUENCODE/UUDECODE program can be found on SHARWARE.COM or DOWNLOAD.COM or at the WEB site of the old ftp oak.oakland.edu site. Many search engines on the WEB will take you to a site. [www.twocows.com](http://www.twocows.com) is a classic site with the latest and greatest.

Uploading and downloading is done in BINARY mode even though the file is in ASCII. If you use Netscape or a browser to upload, you'll be ftp'ing and the browser is usually defaulting to BINARY.

- 3) after downloading such a file, run it thru the companion UUDECODE program to spit out the original .JPG file.
- 4) if you are running thru a UNIX server, it will have the UUDECODE available at the command line (usually).
- 5) most modern graphics viewers handle .JPG files. Windows Paintbrush does not, but isn't really good for much of anything. The heavy-duty graphics sections of Desktop Publishers all do, but that's a bit of overkill if all you want to do is get a clean print-out of the downloaded schematic or drawing. Someone mentioned PaintShopPro at around \$80 (sounds right) -- a top-notch all-around graphics editing program. Msft. Office can handle graphic files, but they have to be converted to the .WMF (windows meta file) format first. I don't know if Office 97 has advanced to the point of being able to convert from .JPG TIFF and the rest to .wmf. I guess not too many people in the graphics world have accepted Msft's disgusting monopoly and permitted it to spill over into making the .wmf format the standard. Three hits for Netscape, Opera, TheOther etc. little companies that produce a better product than the beta-gang at Msft. At any rate.
- 6) The overall process is really smooth. Once you've designed the circuit in, say KEYCAD, export it into a PCX or PIC file. Pull that into your graphics program, like PaintShopPro, which converts from anything into anything (except .wmf), and save it out as a .JPG. Run it thru UUDECODE, and then upload it.

That's an overview.

Hope it helps.

72/73 Ade

P.S. The Argo is on beside my computer desk, and lo-n-behold, a little mess down around 7038 with a bunch of weaks signals. Aha! The FOX. Second call, but not much competition! Tnx Bruce!

-----  
Date: Tue, 20 Jan 1998 21:20:01 -0600  
From: Rod Logsdon <bike4life@bikerider.com>  
To: paulc@mediaone.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [1534] Re: EleCraft K2 Transceiver Info  
Message-ID: <34C56961.D99F937D@bikerider.com>  
MIME-Version: 1.0  
Content-Type: multipart/mixed; boundary="-----B452276C2B87CB94ECFEB9D4"

This is a multi-part message in MIME format.

-----B452276C2B87CB94ECFEB9D4  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: 8bit

Looks like a real high performance rig. I'll definetly have to check it out at Dayton.

Rod WK9T QRP-L # 616  
Carol Stream, IL

Paul Christensen wrote:

>  
> For those of you interested in Wayne's (N6KR) next-generation transceiver,  
> click here:  
>  
> <http://www.elecraft.com/>  
>  
> I came across the EleCraft web page when doing a search-engine look-up this  
> weekend. From what I can tell, the K2 will be an interesting alternative to  
> the Ten-Tec Scout, SGC-2020, and the new, smaller Japanese rigs.  
>  
> -Paul, W9AC

--

-----B452276C2B87CB94ECFEB9D4  
Content-Type: text/x-vcard; charset=us-ascii; name="vcard.vcf"

Content-Transfer-Encoding: 7bit  
Content-Description: Card for Rod Logsdon  
Content-Disposition: attachment; filename="vcard.vcf"

begin: vcard  
fn: Rod Logsdon  
n: Logsdon;Rod  
email;internet: bike4life@bikerider.com  
x-mozilla-cpt: ;0  
x-mozilla-html: TRUE  
version: 2.1  
end: vcard

-----B452276C2B87CB94ECFEB9D4--

-----  
Date: Tue, 20 Jan 1998 21:53:44 -0800  
From: LYN WILLIAMS <designserv@ipass.net>  
To: MIKEMO@IBM.NET, qrp-1@Lehigh.EDU  
Subject: [1535] TROUBLESHOOT RCVR WITH HISS  
Message-ID: <34C58D67.1ED091D0@ipass.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Mike, I'm not familiar with your particular receiver at all but some old tried-and-true principles should still apply:

1. Do no harm. This means, for example, don't go in there with a soldering iron and resolder things at random. Once in a long while this procedure might help, but it stands an even greater chance of doing more damage unless you are skilled at soldering and have all the proper tools. It also means DON'T monkey with adjustments or tuning!

2. If you have a hiss or "squelch noise" a superhet receiver, it usually means that your I.F. strip and detector are working so your area of search should center between the antenna and the output of the mixer. This should be confirmed by injecting a weak signal on the IF frequency at the output of the mixer, to determine whether the receiver and receive it. A signal generator, "grid-dip" meter or even a specially-built (thrown-together) test oscillator is needed, but even a capacitively-coupled signal from the same point in another-working-receiver will do here.

3. A signal sniffer of some kind would be very helpful to detect whether your mixer has rf input from the oscillator. For a signal sniffer, your options range from your existing scope to an RF voltmeter or even just a low-value capacitor coupled to a diode detector.

4. If the oscillator works, then you need to connect a signal to the antenna input. This signal can be from a signal generator or it can be a signal that you can normally hear in your area, such as another ham who is transmitting nearby. You should monitor the output of your mixer with a sensitive detector to determine whether the signal is being detected.

5. Another signal source that can be useful at the antenna terminal and at the input to an IF strip is a "DIP" meter. A dip meter is also very good as a signal sniffer to detect your oscillator signal.

6. These hints should help you to localize the problem to a particular stage in your receiver. At that point, it is time to use a high-impedance voltmeter to measure dc voltages around the suspected stage for obvious problems. For example, an amplifier with no dc voltage applied usually means an open circuit, whether it is an open trace on a board, or a bad if transformer winding or open resistor.

7. Before you go "shotgunning" parts, try some of the above hints then, if you need further help, get back in touch with me or with someone else who has troubleshooting experience.

Regards and happy hunting.

Lyn, W4WDN

-----  
Date: Tue, 20 Jan 1998 20:46:37 -0600  
From: Rod Logsdon <bike4life@bikerider.com>  
To: johnb@elmhurst.edu  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [1536] Re: Receiver trouble shooting (LONG)  
Message-ID: <34C5618D.22F76CF7@bikerider.com>  
MIME-Version: 1.0  
Content-Type: multipart/mixed; boundary="-----AD98E6AB5A35A37D47731A03"

This is a multi-part message in MIME format.

-----AD98E6AB5A35A37D47731A03  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

John Bohnert wrote:

>

> > Mike wrote:

> > >The question is, how do I troubleshoot this circuit, without

> > >"shotgunning" parts. I'd really like to understand what is wrong.

>

> ---SNIP---

>

> I have re-read Bob's (WB0POQ) response to Mike half-a-dozen times. It is  
> clear that Mike is motivated to learn and Bob is willing to help...there  
> are many 'Bobs' in QRP and there are many 'Mikes' in QRP. It is also  
> clear that there are some difficulties in this exchange between Bob and  
> Mike.

>

> What if there were a QRP kit (eg. Norcal 40) which would become the  
> "platform" for the construction of simple test equipment (kits?) with  
> the use of QRP-L for a "series" of lessons by helpful Elmer's in the  
> world of QRP? The sessions would support the successful completion of  
> the QRP rig and lead to a greater understanding of the how the rig  
> functions...and I would argue help provide a new vitality in amateur  
> radio...interest in QRP is booming and such a strategy would satisfy a  
> fundamental aspiration of many of us who pursued our tickets.

>

> If successful the use of kits, other than rigs (eg. battery chargers,  
> solar chargers, keyers...highly related to QRP activity) might form the  
> basis for such a series of Elmer-beginner conversations.

>

> 72

> John        N9KW        QRP-L # 1257

> Elmhurst, IL

--

John:

This is a great idea. I think it would go a long way in helping a lot of  
us better understand RF circuits. I, for one, am definetly interested.

72 Rod      WK9T        QRP-L # 616

Carol Stream, IL

-----AD98E6AB5A35A37D47731A03

Content-Type: text/x-vcard; charset=us-ascii; name="vcard.vcf"

Content-Transfer-Encoding: 7bit

Content-Description: Card for Rod Logsdon

Content-Disposition: attachment; filename="vcard.vcf"

begin:            vcard

fn: Rod Logsdon  
n: Logsdon;Rod  
email;internet: bike4life@bikerider.com  
x-mozilla-cpt: ;0  
x-mozilla-html: TRUE  
version: 2.1  
end: vcard

-----AD98E6AB5A35A37D47731A03--

-----  
Date: Tue, 20 Jan 1998 22:34:26 -0500  
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
To: "INTERNET:n2tnn@ifu.net" <n2tnn@ifu.net>, QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>  
Subject: [1537] Re: Fox again 1-21-98  
Message-ID: <199801202238\_MC2-300F-29B8@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: 7bit  
Content-Type: text/plain; charset=us-ascii  
Content-Disposition: inline

Dean:

Great job tonight as the FOX! Really appreciate your digging me out. Sorry I called again, but was not certain we had completed. The QRN/noise level was 10 over S-9 during our QS0, but you were still fairly easy copy. Wow. My ears are still ringing :-).

Setup tonight was Wilderness Sierra at 1.7 watts out powered by a 2.7 gel cel. The variable filter made the difference. Allowed me to very carefully zero your signal, at least good enough for a QS0. ZM-1 tuner.

Hope you had another great run. Please drop by on 24 Feb 98 during my second run!

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ARS 311 FISTS 3868 mn-qrp 19  
nj-qrp 69 ak/qrp 139 AR QRP 73 HI-QRP 30 ARCI 9398 ARRL  
QRP WAS 44/42 DXCC 73/44 Grid EN34 <>< A 1997/98 FOX.

-----  
Omni V Corsair I Yaesu 900AT Wilderness Sierra SW-40 49er  
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D Matchbox GAP Titan  
TNT/2 Windom SLV/W6MMA G5RV Timewave 599zx Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

-----  
Date: Tue, 20 Jan 1998 23:07:00 -0500  
From: "Dean Marzocca" <n2tnn@ifu.net>  
To: "QRP-L" <qrp-l@Lehigh.EDU>  
Cc: "dean" <n2tnn@ifu.net>  
Subject: [1538] Fox results 1-21-98  
Message-ID: <199801210408.XAA05105@ifu.ifu.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

OK GANG!

What a great night here. It started very badly with the QRM following me but at about 0200 it started sounding better. I tried to catch part of the call and then send it back with a ?. Most stations sent back their correct call and we were off and running. When I moved down around 7.037, I was between two stations and I had the filter tightened way down. I was calling CQ and then I found a few of you on my high side. I then flipped the RIT in and that made it much easier. The only problem was the next station moved a bit higher and so on. I eventually had to re-set it and move back down to .037. There were many 599 signals and it was enjoyable. Thank you very much.

I had an e-mail from a Canada station and he asked if I would call CQ VE. I did and I got Bruce, VE5RC in SK. All I could think of was SK, silent key?. My antenna never went that far so I was confused. Then I had Mabel in IA, thats a new one for me. Her four watts were cookin' comin' in here. Very strange propagation tonight. Look at how many scattered hits there were. AZ and CA were difficult to say the least.

Thanks to all who tried and didn't get a shot, you faded down into the noise and were gone. I tried sending faster than necessary just to give you time to get back to me but I think that just confused the situation. I had fun, hope you did also.

Here are the contact and I am open to corrections as usual:

|           |     |    |      |      |
|-----------|-----|----|------|------|
| 0103 N9DD | 559 | IN | TOM  | 32   |
| 0105 K1MG | 599 | CA | MIKE | 614  |
| 0105 N9KW | 559 | IL | JOHN | 1257 |
| 0107 W6ZH | 339 | CA | ?A_T | 257  |
| 0111 N0UR | 559 | MN | JIM  | 799  |



|             |     |     |           |      |      |
|-------------|-----|-----|-----------|------|------|
| 0114 N6MM   | 559 | CA  | HARVEY    | 318  |      |
| 0114 AE4IC  |     | 449 | NC BOB    | 54   |      |
| 0116 AB5UA  |     | 559 | OK CLIF   | 478  |      |
| 0117 N1TP   | 559 | FL  | TOM       | 1317 |      |
| 0121 W5HNS  |     | 559 | TX HENRY  |      | 178  |
| 0123 N2WF   | 559 | NJ  | BILL      | 955  |      |
| 0126 AA9L   | 559 | WI  | RICH      | 1355 |      |
| 0127 K5ZTY  |     | 559 | TX BILL   | 473  |      |
| 0131 WA9PWP | 559 | WI  | PAUL      | 127  |      |
| 0132 N5LU   | 559 | OK  | BILL      | 5W   |      |
| 0134 K5ON   | 569 | NM  | GARY      | 770  |      |
| 0141 WB0T   | 579 | IA  | JERRY     |      | 1268 |
| 0144 K5OI   | 559 | NM  | TIM       | 73   |      |
| 0148 N0EUM  |     | 559 | IA MABEL  |      | 4W   |
| 0152 KI7MN  |     | 339 | AZ BOB    | 271  |      |
| 0155 N6XU   | 559 | CA  | STAN      | 66   |      |
| 0157 N7XJW  |     | 559 | AZ BERTI  |      | 1259 |
| 0157 K10J   | 559 | TX  | OJ        | 732  |      |
| 0159 KA5T   | 559 | TX  | LARRY     |      | 89   |
| 0200 K5UP   | 559 | OK  | GLEN      | 21   |      |
| 0202 KU7Y   | 559 | NV  | RON       | 17   |      |
| 0204 W5FN   | 559 | TX  | TIM       | 586  |      |
| 0207 AA0ZZ  |     | 339 | MN CRAIG  |      | 1238 |
| 0211 AB7MY  |     | 559 | AZ GARY   | 571  |      |
| 0214 K5VUU  |     | 559 | TX ED     | 1343 |      |
| 0215 W0RW   | 599 | CO  | PAUL      | 2W   |      |
| 0218 K9LJB  |     | 439 | IL ROGER  |      | 1403 |
| 0223 WE6W   | 559 | CA  | ED        | 1068 |      |
| 0224 N7VE   | 559 | AZ  | DAN       | 5W   |      |
| 0225 AB7TK  |     | 339 | ID RANDY  |      | 102  |
| 0231 W5SB   | 559 | TX  | BILL      | 1279 |      |
| 0235 K0EVZ  |     | 559 | MN DOC    | 861  |      |
| 0236 W0RSP  |     | 449 | SD ADE    | 5W   |      |
| 0239 W0CH   | 559 | MO  | DAVE      | 618  |      |
| 0240 W6BAB  |     | 559 | CA HARVEY | 5W   |      |
| 0242 NQ7X   | 559 | AZ  | RON       | 343  |      |
| 0247 N6WG   | 559 | CA  | BOB       | 1626 |      |
| 0248 N7IR   | 449 | AZ  | GARY      | 1330 |      |
| 0254 K5GQ   | 449 | TX  | MARK      | 794  |      |
| 0255 AC5J   | 339 | LA  | TOM       | 1319 |      |
| 0257 VE5RC  |     | 559 | SK BRUCE  |      | 886  |

46 contacts, I'm happy, could have been better but for the black fox hole called NJ

Tnx again and send corrections soon.....

Index Labs QRP+ 5W  
Gap vertical up 10 feet  
battery power and Companion tuner  
MFJ keyer set to Iambic "B" this time

72/73 Dean N2TNN NJ  
n2tnn@ifu.net

-----  
Date: Tue, 20 Jan 1998 23:18:59  
From: "Gary M. - W2UX" <mail4gary@worldnet.att.net>  
To: qrp-1@Lehigh.EDU  
Subject: [1539] W2UX FOX Log - 1/20/98 - First Revision  
Message-ID: <3.0.3.16.19980120231859.3c3f49f4@postoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>> Indicates a correction or change..

Worked 59 stations in 26 states and ON in Canada.

0100 UTC START

|          |     |       |           |
|----------|-----|-------|-----------|
| W5FN 569 | TX  | TIM   | 586       |
| N4ROA    | 579 | VA    | DAN 970   |
| N5YUC    | 559 | AL    | JACK 1345 |
| K8CV 579 | MI  | WALT  | 935       |
| N4PK 569 | GA  | ED    | 1307      |
| W0CH 569 | MO  | DAVE  | 618       |
| K5ZTY    | 579 | TX    | BILL 473  |
| KA8OKH   | 559 | KY    | RICH 933  |
| WD4MSM   | 569 | IN    | BARRY 642 |
| WB9HFK   | 559 | IL    | MARK 1159 |
| N9DD 569 | IN  | TOM   | 32        |
| W6ZH 559 | CA  | PETE  | 257       |
| N7IR 569 | AZ  | GARY  | 1330      |
| N9KW 559 | IL  | JOHN  | 1257      |
| NQ7X 559 | AZ  | FLOYD | 343       |
| NU8Z 559 | MI  | MARK  | 1431      |

>>NA3V 559 PA JIM ???? Need number or power - 1317 incorrect

|          |     |      |             |
|----------|-----|------|-------------|
| W5SB 569 | TX  | BILL | 1279        |
| WD5COV   | 579 | CO   | DAVE 5W     |
| K4PYM    | 559 | SC   | GEORGE 1297 |

K5ID 569 AR KEN 652  
N6MM 559 CA HARVEY 318  
VE3ELA 559 ON KEN 1226  
K1MG 559 CA MIKE 614  
K8FF 589 OH WAYNE 1360  
K5VUU 569 TX ED 1343  
KQ5U 559 TX TERRY 5W

>>K5OI 569 NM TIM 73

WV3J 559 VA PAUL 1224  
N1TP 559 FL TOM 1317  
WD3P 559 MD LARRY 1039  
AE9K 559 WI BRIAN 58  
AB7TK 559 ID RANDY 102  
N8CW 559 OH BOB 4W ?  
WB4EXW 559 NC WATSON 5W

0206 UTC

K10J 559 TX OJ 732  
K5UP 559 OK GLEN 21  
K5JHP 559 TX BILL 825  
W8KC 559 MI PAUL 59  
N5LU 559 OK BILL 5W  
W5HNS 559 TX HENRY 178  
N4XDW 559 AL JAY 1372  
WB0T 559 IA JERRY 1268  
W0RW 559 CO PAUL 2W  
AB5UA 559 OK CLIF 478  
N3XRV 559 MD CHRIS 655

>>AA5TA 559 TX LARRY 1245

KS4HQ 569 NC BOB 801  
KU7Y 559 NV RON 17  
N5JI 559 TX DICK 1054  
KD4OBQ 589 FL PAT 1009  
K5GQ 559 TX MARK 794  
N6XU 559 CA STAN 66  
KA5T 449 TX LARRY 89  
WA5SAJ 559 TX LARRY 1409  
K06KA 449 CA` ROB 176 '  
W8RU 559 MI RON 188  
W4YNG 559 AL HAL 5W  
AC5JH 449 LA TOM 1319

0300 UTC END

=====  
72/73 de W2UX  
Gary McCaughey  
Lexington, SC  
CW is the REAL THING!  
Use it....or lose it.  
QRP-ARCI QRP-L CQC  
=====

-----  
  
Date: Tue, 20 Jan 1998 23:22:26 -0500 (EST)  
From: Mike Czuhajewski <wa8mcq@u1.abs.net>  
To: qrp forum <qrp-l@Lehigh.EDU>  
Cc: ARCI Board -- byron Johnson <byron8lcz@aol.com>, Danny Gingell  
<k3tks@abs.net>, Hank Kohl <k8dd@contesting.com>, kt3a@juno.com,  
Buck Switzer <n8cqa@tir.com>, rgob@tengizchevroil.com,  
rgobrick@worldnet.att.net, Ken Evans <w4du@bellsouth.net>, Jim Stafford  
<w4qo@america.net>,  
Subject: [1540] QRP Hall of Fame, last call  
Message-ID: <Pine.BSI.3.96.980120231844.17684A-100000@u1.abs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

The deadline for nominations for the QRP Hall of Fame, sponsored by the QRP ARCI, is almost upon us. As announced a few months ago, nomination letters will be accepted up until the end of January. Although anyone can be nominated and inducted (if they get a passing vote), only QRP ARCI members can currently submit nomination letters. If you are a member and know someone who you think is worthy of induction, write up a brief letter of a couple of paragraphs telling us why you think they should be inducted. Send it to me; I'm in charge of running the program. After the deadline has passed, I send the nomination letters on to the voting body (Board of Directors, President [me] and Vice President), we get a few weeks to discuss them among ourselves, and then the voting is done. Those who get at least a 2/3 FOR vote will be inducted; they will be announced publicly at Dayton in May.

Here's the text of the announcement that appeared a couple issues back in the QRP Quarterly (slightly modified).

QRP HALL OF FAME FOR 1998

It's that time again--we are now accepting nominations for the 1998 inductions into the QRP Hall of Fame. If you feel someone has had a significant impact on the QRP community through outstanding accomplishments (technical, operating, organizational, etc), it's time to nominate them for this honor. As usual, you have until the end of January to get your write-ups to me, WA8MCQ, via mail or private e-mail. (No nominations will be accepted via public posting to QRP-L.) The nominations will be collected and sent to the voters, we'll have a week or two to discuss them before voting, and the inductees (if any) will be announced at Dayton.

The voting body consists of the Board of Directors, President and Vice President. Last year we experimented with offering current QRP HoF members the option of voting if they wished, and several of them accepted. That may or may not be done this year; there will be some discussion of that and other HoF matters in the coming months.

Nominating letters will only be accepted from QRP ARCI members, although last time we also allowed current Hall of Famers to nominate worthy individuals if they wished. As I said last year, some reading this may not be members but might like to nominate someone. If so, there's plenty of time to join! (This is not intended as a subtle ploy to get new members!)

You must do more than simply toss out a name. We need to have a few paragraphs giving some details of the accomplishments, telling us why the person is worthy of the honor. Don't count on all of the voters knowing everything about your favorite QRP hero; you think they are worthy of the honor and it's your duty to convince us. In the past, it was not unusual to see comments to the effect that since someone didn't bother to write more than a line or two, then the person must not be very worthy of getting the vote.

If you nominate someone, be sure to include your QRP ARCI member number, so we can verify that you are a member. Send all nominations to me. Important: all inputs must be acknowledged by me! If you do not hear back from me in a short time, please assume that I never received it, and let me know. I'd hate to see someone lose out on the chance to be inducted because a letter or e-mail never got through.

As always, each nominee is judged on his/her merits; this is not a competition to choose the top two or three or whatever. There are no quotas and no limits. If the voters don't feel any nominees truly deserve the honor this time around, none will be inducted simply for the sake of having someone to announce at Dayton. On the other hand, if there are a dozen nominees and all are judged worthy, all will

be inducted. (And we get a quantity discount on the plaques!)

The following, in alphabetical order, are the current QRP Hall of Fame members; do not nominate them!

Brice Anderson, W9PNE  
George Burt, GM30XX  
Mike Czuhajewski, WA8MCQ \*\*\*  
Tom Davis, K8IF  
Doug DeMaw, W1FB  
Rev. George Dobbs, G3RJV  
Wes Hayward, W7ZOI  
Doug Hendricks, KI6DS  
Roy Lewallen, W7EL  
Rick Littlefield, K1BQT  
Dick Pascoe, G0BPS  
Randy Rand, AA2U  
C. F. Rockey, W9SCH  
Adrian Weiss, W0RSP

\*\*\*Done behind my back by the Board of Directors, without my knowledge, as reported in the July 1997 QRP Quarterly. In fact, a few people had sent me nominations of myself and I told all of them that I was not accepting them due to the obvious conflict of interest.

Remember, if there is someone you feel is deserving of being inducted into the QRP Hall of Fame, you have until the end of January to submit a nominating letter to me, WA8MCQ.

-----  
A final reminder: only QRP ARCI members can submit nominations (though we may change that in the future), but if you're a member you can nominate any deserving person whether or not they are a member.

73 and Queue Our Pea DE WA8MCQ                      wa8mcq@abs.net  
President, QRP ARCI

-----  
Date: Tue, 20 Jan 1998 23:48:57 -0500  
From: "Dean Marzocca" <n2tnn@ifu.net>  
To: "Timothy J. Pettibone" <tpettibo@nmsu.edu>  
Cc: "QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [1541] Re: Fox results 1-21-98  
Message-ID: <199801210450.XAA06136@ifu.ifu.net>

MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Tim,

Thanks for hanging in there for me. I get the same feeling about the qrm because it started on 7.041 just as I had posted. I even started here about 5 minutes to 0100.

Also, I feel like a dumby when I have to ask for repeats. Over and over again but some of the letters consistantly get clipped off. I was very happy to work that 037 area because I was sandwiched in between two stations and there was a qso right on the same frequency. It was a real learning experience on this end but fun all the way.

72/73 Dean N2TNN NJ  
n2tnn@ifu.net

-----  
> From: Timothy J. Pettibone <tpettibo@nmsu.edu>  
> To: n2tnn@ifu.net  
> Subject: Re: Fox results 1-21-98  
> Date: Tuesday, January 20, 1998 11:12 PM  
>  
> Dean:  
>  
> Great job! I was surprised to find you on 037 but pleased. QRM was  
> terrible. I'm convinced that some idiots get a lot of fun out of  
> intentionally QRMing the fox, but that just makes it more rewarding when we  
> work you! Hope you had fun.  
>  
> 72/73  
>  
> Tim K50I  
>  
>  
>

-----  
Date: Tue, 20 Jan 1998 21:05:50 -0800 (PST)  
From: talljazz@teleport.com (Dan Presley)  
To: mail4gary@worldnet.att.net  
Cc: qrp-1@Lehigh.EDU  
Subject: [1542] Re: W2UX FOX Log & Comments - 1/20/98  
Message-ID: <v01530500b0ea5dc332a8@[206.163.124.23]>  
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Gary-you were strong in Oregon at times, but due to lack of discipline on many callers' parts, the qrm was horrendous! Many repeat calls, and not listening, or not waiting to see who you responded to. Also, there was some intentional qrm heard here as well. Hopefully a little more patience by the hunters will yield better results next time.

Dan N7CQR

-----  
Date: Wed, 21 Jan 1998 00:52:37 -0500 (EST)  
From: Mike Czuhajewski <wa8mcq@u1.abs.net>  
To: qrp forum <qrp-l@Lehigh.EDU>  
Cc: Danny Gingell <k3tks@abs.net>, Bruce Muscolino <w6toy@erols.com>, Scott Rosenfeld <ham@w3eax.umd.edu>, cjsterl@ix.netcom.com, bachmann@ari.net  
Subject: [1543] QRP supper Thurs, Laurel, MD  
Message-ID: <Pine.BSI.3.96.980121004810.20162B-100000@u1.abs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

As far as I know we're still on for Thursday night at 1900 hours local time, at the Olive Garden on Route 1 in Laurel, MD, halfway between Balto and DC. KD4BTH will be in town, and so will I (a 10 mile drive for me, lots more for him!). I haven't heard from anyone yet who's planning on attending, by e-mail or otherwise, but I'll be there. If anyone else is planning on coming, please let me know by e-mail by Wed night, or by phone--the work numbers are 410-290-1919 and 301-621-3340, the latter a DC metro number. I know I should have more locals in the CC line but these are all I can think of off the top of my head; if you guys on the CC line can think of any others, be sure to let them know about the supper.

73 and Queue Our Pea DE WA8MCQ                      wa8mcq@abs.net

-----  
Date: Wed, 21 Jan 1998 00:45:56 -0600  
From: "Robert J. Gobrick" <rgobrick@worldnet.att.net>  
To: qrp-l@Lehigh.EDU  
Cc: "KA5T Larry Wise" <lewise@inetport.com>  
Subject: [1544] Searching Back issues.....  
Message-ID: <3.0.32.19980121004111.00b758cc@postoffice.worldnet.att.net>  
Mime-Version: 1.0



Content-Type: text/plain; charset="us-ascii"

Larry and QRP-L gang,

I have to back up what you say - Rich Rosen and his wife (Who I believe did the database) really had a winner with From Beverages thru Oscar. It was a great program to search back issues of QST, Ham Radio, CQ, QST and Radcom. I too would like to know if anyone has heard of any activity from dit dah publishing. I sure do miss the search engine from 1990 on.

Any leads out there?

73/72 Bob N0EB

Date: Tue, 20 Jan 98 20:36:48  
From: "KA5T Larry Wise" <lewise@inetport.com>  
To: "qrp" <qrp-1@Lehigh.EDU>  
Subject: [1501] Searching Back issues.....  
Message-ID: <199801202039.0AA20831@admin.inetport.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Gang:

Doug's recent note about the form of the older QST CDROMS reminded me of the problems I used to have looking for stuff in back issues of the various mags, even with the 10 year indexes.....

Rich Rosen, K2RR, used to have a company called 'didah publishing' that put out a software program called 'From Beverages thru Oscar A Bibliography 1909-1990' which indexed QST, CQ, HR, 73, and RadCom through the years through 1990....

This program sure made it easy to look up things in back issues....

Last I heard from didah publishing was in 1991 when I ordered version 2 of the program.....

Anybody heard of them lately?????

Sure wish I had updates for 1991 to the present.....

If you have a chance to pick up a copy at a hamfest you might consider it....Runs under DOS....Nothing fancy...just works.....

Larry            KA5T            lewise@inetport.com            Georgetown, Texas

--Bob Gobrick - N0EB & V01DRB (ex WA6ERB, VE2DRB) Stillwater, MN  
--Internet: rgob@tengizchevroil.com and rgobrick@worldnet.att.net

-----  
Date: Tue, 20 Jan 1998 23:46:36 -0700 (MST)  
From: Paul Harden <pharden@aoc.nrao.edu>  
To: Michael <mike.mhe@t-online.de>  
Cc: gqrp-l@blacksheep.org, qrp-l@Lehigh.EDU  
Subject: [1545] Re: GQRP - Make old coils  
Message-ID: <Pine.SOL.3.91.980120234304.11440D-100000@zia>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 20 Jan 1998, Michael wrote:

> I have build a vfo with a toroid of iron powder. The coil is made of  
> emailed copper wire. -  
 ^^^^^^^^^^^^^^^^^^^^^^^

You guys can do that? Boy, you're way ahead of us over here!

(Sorry ... couldn't resist)

72, Paul NA5N

-----  
Date: Tue, 20 Jan 1998 22:55:11 -0800  
From: Monte Stark <ku7y@sage.dri.edu>  
To: pharden@aoc.nrao.edu  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [1546] Re: GQRP - Make old coils  
Message-ID: <34C59BCF.64A2@sage.dri.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Paul Harden wrote:

>

> On Tue, 20 Jan 1998, Michael wrote:  
> > I have build a vfo with a toroid of iron powder. The coil is made of  
> > emailed copper wire. -  
> ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^  
>  
> You guys can do that? Boy, you're way ahead of us over here!  
>  
> (Sorry ... couldn't resist)  
>

That file name must have been form.var

: -)

--

73, Ron, KU7Y

NRA Life-----Ex W6JX0, DL4RF, N7CRV-----SOWP #5545-M  
QRP QRCI #8829----NorCal #330----QRP-L #17-----ARS #49  
AR QRP #150-----DM09cg-----New Washoe City, NV

-----  
Date: Wed, 21 Jan 1998 07:03:10 GMT  
From: John Fletcher <johnf@innotts.co.uk>  
To: mgipe@reliablemeters.com  
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [1547] Keyer paddle convention  
Message-ID: <199801210703.HAA12591@carlton.innotts.co.uk>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hello all,

When the Vibroplex semi-auto key was made, wasn't the  
MORE agile index finger used to form the individual dahs  
and the LESS agile thumb given the less demanding job of  
turning the dit stream on and off? Now that both dits  
and dahs are automated, the dit control is the more  
demanding job. Just my opinion.

72 de John G4EDX

-----

```
On Tue, 20 Jan 1998, Ed Loranger wrote:
>
> A few respondents mentioned the Wrist does all the work.
> Now someone reminded me of Iambic squeeze keying.
Good point, Ed.  Maybe why that's why I've never been able to master
Iambic keying, my thumb & index finger don't move independantly.  :-)
```

Bob Patten, N4BP ( 0 0 ) Plantation, FL  
o00o-( )-o00

E-Mail: [n4bp@bc.seflin.org](mailto:n4bp@bc.seflin.org)  
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>  
Brass Pounder BBS: (954) 472-7715

```
On Tue, 20 Jan 1998, Bigbob97 wrote:
>
> I would like to apologize for hitting the wrong button and unintentionally
> forwarding a list of internet jokes to this list - surely was not meant and
> not nice.  They were meant for my brother in law.  Again, very sorry - and
My XYL got a kick out of them.  No offense taken here...
```

Bob Patten, N4BP ( 0 0 ) Plantation, FL  
o00o-( )-o00

E-Mail: n4bp@bc.seflin.org  
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>  
Brass Pounder BBS: (954) 472-7715

-----  
Date: Wed, 21 Jan 1998 02:32:32 EST  
From: RangerSF5 <RangerSF5@aol.com>  
To: qrp-L@Lehigh.EDU, njqrp@njqrp.org  
Subject: [1550] CORE WINDING NEED INFO  
Message-ID: <9a8578fc.34c5a492@aol.com>  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Need some info on winding cores.  
How critical are the windings on qa 3/8 inch bifilar core?  
The windings are very neat but I noticed about 3 pairs are not up tight  
against the core.  
This is my 2nd try and I can't seem to avoid the gap at the top of the core.I  
don't know the size of the wires as OAK HILLS did not supply that info.  
It looks to be 24 ga  
The wire used to wind the core will slide under the gap that I just can't seem  
to avoid  
Can it stay as is??,or should I keep trying.  
I know a lot of pros out there have the answer  
Will wait for reply  
Thank you Bob  
WA2HOQ #1437

-----  
Date: Wed, 21 Jan 1998 02:40:48 EST  
From: RangerSF5 <RangerSF5@aol.com>  
To: qrp-L@Lehigh.EDU  
Subject: [1551] Receiver Hiss  
Message-ID: <12c8847d.34c5a683@aol.com>  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

I don't know if this will be of any help but my Drake 2B had the same problem.  
Since tube checkers are hard to find,I replaced all the tubes.The hiss went  
away.  
So I assume one of the problem created the problem  
Bob WA2HOQ  
#1437

-----  
Date: Wed, 21 Jan 1998 18:54:41 +1000  
From: lenriquez@pacific.simoco.com (Luke Enriquez)  
To: qrp-l@Lehigh.EDU  
Subject: [1552] Sierra 40M Band Module - Lack of Sensitivity  
Message-ID: <00007A78.4068@pacific.simoco.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
Content-Description: cc:Mail note part

G'day All.

Okay, well after doing some tests tonight I'm convinced something is wrong with my 40M band module. Both the 80M and 20M modules are sensitive down to -130dBm (Impressive) but the 40M can only get -100dBm. There is hardly any Q in the 40M module. You can turn one of the variable caps 360 deg and get no change. The other variable cap you can turn and get no change of 3/4 of its rotation. In other words, a very very low Q compared to the 80M and 20M modules. Any suggestions?

Regards and 73's,

Luke

-----  
Date: Wed, 21 Jan 1998 10:08:25 +0200  
From: Arjen Raateland <Arjen.Raateland@vyh.fi>  
To: QRP-L <QRP-L@Lehigh.EDU>  
Subject: [1553] Keying and wiring conventions  
Message-ID: <34C5ACF8.5452@vyh.fi>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

> Bob Patten wrote:

> > As far as dit/dah configuration, this has been my observation.. My thumb  
> > and index finger maintain the same spacing so that all sending is done  
> > with my wrist. In my case, thumb "dexterity" is not a factor. And it  
> > usually sends the numbers of dits that I tell it to. :-)

>

I'm only a beginner in CW, but surely one cannot be squeeze keying without actually **\*\*squeezing\*\*** the paddles ;-)

--

P.S. I chose to learn keying with my left hand and use the thumb for dahs.

On Wed, 21 Jan 1998, Arjen Raateland wrote:

73,

E-Mail: [n4bp@bc.seflin.org](mailto:n4bp@bc.seflin.org)  
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>

Brass Pounder BBS: (954) 472-7715

-----  
Date: Wed, 21 Jan 1998 09:58:36 +0100  
From: Paolo Sassoli <Paolo.Sassoli@italtel.it>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [1555] F.S. RF components  
Message-ID: <34C5B8BB.E5CF36D3@iilsh01.settimo.italtel.it>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: quoted-printable

Hi to all.

It=92s time for me to get rid of some stuff from my lab for peacefully living with my family.  
I think that some components may be of interest for RF oriented homebrew enthusiasts and they can be sent in a good envelope.

For sale:

# 60 double balanced mixers EUROTEC EMA173HXX ...\$ 12 each shipped  
(european equivalent for MINI-CIRCUITS SRA173 SH;  
+17dBm LO; up to +14dBm RF; 5 to 1000 MHz; sealed-metal case)

# 60 MURATA ceramic filters CFM455C4 ...\$ 5 each shipped  
(+/- 9KHz at 3 dB; 9 elements; metal case;  
for FM 25 KHz spacing channel systems)

# 20 SA602 (PHILIPS active mixer, same as NE602 but SMD)... \$ 4 each shipped

# 25 MRF627 (MOTOROLA, npn, 407 to 512 MHz amplifier,  
12.5V, 10 dB gain, 0.5 W p.out)... \$ 5 each shipped

If interested, please contact me directly to my address.

Paolo.

-----



Date: Tue, 20 Jan 1998 13:08:15 +0000  
From: k5zty@juno.com  
To: jadepro@jadeprod.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [1556] Re: preventing destruction of gel cell?  
Message-ID: <19980121.124707.6470.1.k5zty@juno.com>

The UC3906 charger is also in the ARRL Handbook . It can be modified to charge any size gel cell.

Bill, K5ZTY

-----  
Date: Tue, 20 Jan 1998 12:52:39 +0000  
From: k5zty@juno.com  
To: K5BDZ@aol.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [1557] Re: FINALE: outback make-do antennas  
Message-ID: <19980121.124707.6470.0.k5zty@juno.com>

Hey Bill,

I suspect that there was some cactus juice in your canpfire coffee.

Bill, K5ZTY

-----  
Date: Wed, 21 Jan 1998 07:40:04 -0500  
From: Michael Neverdosky <MichaelN@cycat.com>  
To: qrp-1 mailing list <qrp-1@Lehigh.EDU>  
Subject: [1558] Re: Keyer wiring convention  
Message-ID: <34C5ECA4.9FEA0195@cycat.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

n4bp@bc.seflin.org wrote:

>

> On Tue, 20 Jan 1998, Michael A. Gipe wrote:

> >

> > You may be right about the physiology of the task. Maybe this is just

> > another example of poor ergonomic design that got 'standardized', like the

> > QWERTY typewriter?

> >

> Having taken touch typing in high school - admittedly MANY years ago, so  
> my memory may have faded a bit - I seem to recall that the QWERTY (Mike,  
> you spelled it wrong :-)) keyboard was very carefully laid out  
> according to statistics on how often each key was used...

YES. It was designed to SLOW THE TYPIST DOWN!

The early manual typewriters could not keep up with a fast typist so they redesigned the layout so the people would not out run the machine.

The real reason we still have QWERTY is tradition, there are lots of keyboard

layouts that are much better.

Unless of course, you already know how to touch type on QWERTY. :-))

michael N6CHV

-----  
Date: Wed, 21 Jan 1998 09:08:12 -0500 (EST)

From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>

To: VHF Mailing list <vhf@w6yx.stanford.edu>, qrp-l <qrp-l@Lehigh.EDU>,   
eax@w3eax.umd.edu, Laurel ARC <larc-l@webtrek.com>

Cc: quefive@tiac.net, grao@umbc.edu

Subject: [1559] ANNOUNCING: Ten-Tec T-kits 10% off group purchase!

Message-ID: <Pine.LNX.3.95.980121083640.30126N-100000@w3eax.umd.edu>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Overwhelming response has told me that the \$500 overall minimum order is a no-brainer.

The GROUP PURCHASE is a reality!

WHAT'S INCLUDED

Ten-Tec makes a lot of really nice kits - HF/2m wattmeter, 6m & 2m xverters, 50/144/220 MHz FM mobile rigs, 20/30/40m CW QRP rigs, a dummy load, a general coverage receiver, single-band receivers, module boards, and much more.

These kits can be viewed at [www.tentec.com](http://www.tentec.com). Questions can be sent to [sales@tentec.com](mailto:sales@tentec.com) or via telephone at 1-800-833-7373.

HOW THIS WORKS

As with the four previous LDG antenna tuner/balun kit purchases we've

done, everything has to be purchased at once by a single person, and shipped to that person. That person would be me.

#### STEP ONE

You tell me what kit(s) you want from Ten-Tec.  
I need a shipping address (UPS).  
I need home and work phone numbers.  
Your e-mail address helps, too.

#### STEP TWO

I figure out the price given the 10% discount, shipping TO my house, and re-shipping (UPS is just down the street from my house) and insurance to your location.

Examples:

The Model 1208 20-to-6m transverter lists \$95, and becomes \$85.50.  
The Model 1340 40m QRP rig lists \$95 and is \$85.50.  
The Model 1230 220 MHz FM xcvr lists \$295, and is \$265.50.  
The broadband preamp module board, Model 1001, lists for \$9 and is \$8.10.

#### STEP THREE

You reply by sending me a check or money order, payable to me, for said amount.

An ADDRESS LABEL is appreciated but not required.

#### STEP FOUR

I notify you of its arrival Chez Rosenfeld.

#### STEP FIVE

I deposit it and verify that everything clears, and once the purchase closure date has passed, make the purchase.

#### STEP SIX

I receive several big boxes, make a mess of my living and dining rooms for a weekend, and re-package everything.

#### STEP SEVEN

I address everything and run it over to UPS and/or the Post Office, completing the process.

Thanks to all of you, Ten-Tec, and whomever owns this Internet thingy these days, for making this possible! Most importantly, see you on the air!!!

\* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 \*  
\* 6m 82 grids on 8w \* DXCC WAS WAC \* QRP-L #147 \* QRP ARCI #9054 \*  
\* <http://w3eax.umd.edu/~ham> \* ARRL Life Member /Laurel ARC/UMARA \*  
\*\*\* 301-549-1022 h 301-982-1015 w \*\*\* 35 wpm HF mobile CW Neon \*\*\*

-----  
Date: Wed, 21 Jan 1998 08:15:59 EST  
From: WB0NZM <WB0NZM@aol.com>  
To: qrp-1@Lehigh.EDU  
Subject: [1560] Re: Circad Question  
Message-ID: <9a862c1b.34c5f511@aol.com>  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

In a message dated 98-01-20 12:26:48 EST, you write:

>I've downloaded the Circad DEMO, and through practice, seem to have  
>most of the drawing functions down. My problem is that I can't seem to find a  
way >to print out my completed drawing. I am using a 9 pin printer at the  
moment.

To print a file, select Plotter Out, from the File Menu. Then, make sure that the 'layer' that you want to print has a number '7' to the right of the layer name, on the window that opens up. This '7' tells the printer to print 'black' (different numbers will tell the program to print in various colors on a color pen plotter, and if the color isn't set to '7' (black), then the output won't look good and black on your printer). You also have to set the 'type' of 'plotter', which of course, can also be a printer. One of the 'buttons' on this window will allow you to select from several different types of printer output. If you've gotten down most of the other operations of the program, then you won't have any trouble getting this to work - just play around with it a little more in this part of the program. <g>

John

-----

Date: Wed, 21 Jan 1998 08:32:00 -0500  
From: "Tracy, Michael, KC1SX" <mtracy@arrl.org>  
To: QRP List <qrp-l@Lehigh.EDU>  
Subject: [1561] Re: Fwd: Re: Searching Back issues.....  
Message-ID: <m0xv0F8-000Z1VC@mgate.arrl.org>

Larry and the group,

Glenn is somewhat confused; TIS Find, while quite handy, does not include any QST indexes. When I created the databases for this excellent program written by Jon Bloom, I made up a few databases from recent years of QST, but they just didn't work well due to the large number of entries involved. The only ones available are the list of companies and organizations and the \*list\* of all QST Product Reviews since 1970 (note - this is just a list, not the actual review text).

Around ARRL HQ, we use a freeware program called Grep for Windows to search a collection of ASCII files that are scans of past December indexes. These files go back to 1924 when QST first had an index (before that, there weren't any). However, the older ones (before 1970) are in "raw" form; ie., they contain numerous scanning errors. Nonetheless, they can sometimes be useful in locating past articles. Because of the errors in the files, I do not distribute them outside of HQ (just because there isn't any practical way to get updates out).

Not mentioned in Glenn's message are 3 web sites of folks who have put together their own searchable QST indexes:

<http://ouvaxa.cats.ohiou.edu/~mcfaddenv/qst.htm>  
<http://www.tfs.net/~twheeler/jcrac/qst.htm>  
<http://www.tp.net/tp/users/japple/>

Regarding From Beverages Through Oscar from Didah Publishing, as far as I know, it is still available, although as of yet only current through 1991. You can contact Didah for more information at:

Didah Publishing  
Richard J. Rosen, K2RR  
PO Box 7368  
Nashua, NH 03060-7368  
Phone: 603-878-3628

As those who have seen this product know, it is a searchable index of all the major ham publications and quite a few others. It is limited to technical articles/items only (not a bad limitation) and the entries before 1930 are but a few. The entries are not article titles - they are instead the topic of the article as Mr. Rosen interprets it. In spite of those limitations, it is very useful nonetheless.

As there is an obvious need for better search capability than any of the currently available methods provide, we have been looking into creating something better (albeit for QST only), but it will be some time (indeterminate) before anything along these lines is ready.

Best Regards, Michael Tracy, KC1SX, ARRL Laboratory Engineer

-----  
American Radio Relay League, Inc.      Tel: 1-860-594-0200  
225 Main Street                      Fax: 1-860-594-0259  
Newington, CT 06111                Email: mtracy@arrl.org (internet)  
-----

-----  
Date: Wed, 21 Jan 1998 09:34:57 -0500 (EST)  
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>  
To: VHF Mailing list <vhf@w6yx.stanford.edu>, qrp-l <qrp-l@Lehigh.EDU>,   
eax@w3eax.umd.edu, Laurel ARC <larc-l@webtrek.com>  
Cc: quefive@tiac.net, grao@umbc.edu  
Subject: [1562] CLOSING DATE of Ten-Tec Group Buy!  
Message-ID: <Pine.LNX.3.95.980121093149.30657B-100000@w3eax.umd.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Dummy, silly me, forgot to include that tidbit.

I'll keep the order window open the exactly THREE WEEKS FROM TODAY, WHICH PUTS IT AT February 11.

This should guarantee that I receive payment by the 18th, and can make the order and receive everything, and have everything in the owners' hands by the end of February.

\* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 \*  
\* 6m 82 grids on 8w \* DXCC WAS WAC \* QRP-L #147 \* QRP ARCI #9054 \*  
\* <http://w3eax.umd.edu/~ham> \* ARRL Life Member /Laurel ARC/UMARA \*  
\*\*\* 301-549-1022 h 301-982-1015 w \*\*\* 35 wpm HF mobile CW Neon \*\*\*

-----  
Date: Wed, 21 Jan 1998 05:38:28 -0800 (PST)  
From: Stanley Wilson <microres@crl.com>  
To: RangerSF5 <RangerSF5@aol.com>

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [1563] Re: CORE WINDING NEED INFO  
Message-ID: <Pine.SUN.3.91.980121053532.13988B-100000@crl3.crl.com>  
Mime-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Bob, I expect your winding are ok. However, if you want to tighten the turns up even more a trick I use is to dip the finished coil in boiling water for a few minutes. Only problem I have had with doing this in a few cases the coils for say a VFO require less turns on the dip coil and say the same coil not dip. de stan

-----  
Date: Wed, 21 Jan 1998 07:44:55 -0600  
From: "Rattray, Bruce" <Rattray@siast.sk.ca>  
To: "'n2tnn@ifu.net'" <n2tnn@ifu.net>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [1564] RE: Fox results 1-21-98  
Message-ID: <ABB04875E11AD01191A40000F83092BE566FD9@STONE>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: 7BIT

Hello Dean...vy interesting...I didn't send the e-mail for CQ VE...I was just lucky after 2 hours of listening that you were able to hear me as the hunt came to a close...my xyl Bonnie checks on me by shaking my shoulder as she passes by the ham shack because she says that often I sure LOOK like a Silent Key while I'm fox hunting!...hi hi hi... :- )  
...tnx agn - 72 - Bruce(VE5RC)

-----Original Message-----

From: Dean Marzocca [SMTP:n2tnn@ifu.net]  
Sent: Tuesday, January 20, 1998 10:07 PM  
To: Low Power Amateur Radio Discussion  
Subject: Fox results 1-21-98

OK GANG!

What a great night here. It started very badly with the QRM following me  
but at about 0200 it started sounding better. I tried to catch part of the  
call and then send it back with a ?. Most stations sent back their correct  
call and we were off and running. When I moved down around 7.037, I was

between two stations and I had the filter tightened way down. I was calling

CQ and then I found a few of you on my high side. I then flipped the RIT in

and that made it much easier. The only problem was the next station moved a

bit higher and so on. I eventually had to re-set it and move back down to

.037. There were many 599 signals and it was enjoyable. Thank you very much.

I had an e-mail from a Canada station and he asked if I would call CQ VE. I

did and I got Bruce, VE5RC in SK. All I could think of was SK, silent key?.

My antenna never went that far so I was confused. Then I had Mabel in IA,

thats a new one for me. Her four watts were cookin' comin' in here.

Very strange propagation tonight. Look at how many scattered hits there

were. AZ and CA were difficult to say the least.

Thanks to all who tried and didn't get a shot, you faded down into the

noise and were gone. I tried sending faster than necessary just to give you

time to get back to me but I think that just confused the situation. I had

fun, hope you did also.

Here are the contact and I am open to corrections as usual:

|             |     |    |        |      |
|-------------|-----|----|--------|------|
| 0103 N9DD   | 559 | IN | TOM    | 32   |
| 0105 K1MG   | 599 | CA | MIKE   | 614  |
| 0105 N9KW   | 559 | IL | JOHN   | 1257 |
| 0107 W6ZH   | 339 | CA | ?A_T   | 257  |
| 0111 N0UR   | 559 | MN | JIM    | 799  |
| 0114 N6MM   | 559 | CA | HARVEY | 318  |
| 0114 AE4IC  | 449 | NC | BOB    | 54   |
| 0116 AB5UA  | 559 | OK | CLIF   | 478  |
| 0117 N1TP   | 559 | FL | TOM    | 1317 |
| 0121 W5HNS  | 559 | TX | HENRY  | 178  |
| 0123 N2WF   | 559 | NJ | BILL   | 955  |
| 0126 AA9L   | 559 | WI | RICH   | 1355 |
| 0127 K5ZTY  | 559 | TX | BILL   | 473  |
| 0131 WA9PWP | 559 | WI | PAUL   | 127  |
| 0132 N5LU   | 559 | OK | BILL   | 5W   |



|            |     |     |       |        |      |
|------------|-----|-----|-------|--------|------|
| 0134 K50N  | 569 | NM  | GARY  | 770    |      |
| 0141 WB0T  | 579 | IA  | JERRY |        | 1268 |
| 0144 K50I  | 559 | NM  | TIM   | 73     |      |
| 0148 N0EUM |     | 559 | IA    | MABEL  | 4W   |
| 0152 KI7MN |     | 339 | AZ    | BOB    | 271  |
| 0155 N6XU  | 559 | CA  | STAN  | 66     |      |
| 0157 N7XJW |     | 559 | AZ    | BERTI  | 1259 |
| 0157 K10J  | 559 | TX  | OJ    | 732    |      |
| 0159 KA5T  | 559 | TX  | LARRY |        | 89   |
| 0200 K5UP  | 559 | OK  | GLEN  | 21     |      |
| 0202 KU7Y  | 559 | NV  | RON   | 17     |      |
| 0204 W5FN  | 559 | TX  | TIM   | 586    |      |
| 0207 AA0ZZ |     | 339 | MN    | CRAIG  | 1238 |
| 0211 AB7MY |     | 559 | AZ    | GARY   | 571  |
| 0214 K5VUU |     | 559 | TX    | ED     | 1343 |
| 0215 W0RW  | 599 | CO  | PAUL  | 2W     |      |
| 0218 K9LJB |     | 439 | IL    | ROGER  | 1403 |
| 0223 WE6W  | 559 | CA  | ED    | 1068   |      |
| 0224 N7VE  | 559 | AZ  | DAN   | 5W     |      |
| 0225 AB7TK |     | 339 | ID    | RANDY  | 102  |
| 0231 W5SB  | 559 | TX  | BILL  | 1279   |      |
| 0235 K0EVZ |     | 559 | MN    | DOC    | 861  |
| 0236 W0RSP |     | 449 | SD    | ADE    | 5W   |
| 0239 W0CH  | 559 | MO  | DAVE  | 618    |      |
| 0240 W6BAB |     | 559 | CA    | HARVEY | 5W   |
| 0242 NQ7X  | 559 | AZ  | RON   | 343    |      |
| 0247 N6WG  | 559 | CA  | BOB   | 1626   |      |
| 0248 N7IR  | 449 | AZ  | GARY  | 1330   |      |
| 0254 K5GQ  | 449 | TX  | MARK  | 794    |      |
| 0255 AC5J  | 339 | LA  | TOM   | 1319   |      |
| 0257 VE5RC | 559 | SK  | BRUCE |        | 886  |

46 contacts, I'm happy, could have been better but for the black  
fox hole  
called NJ

Tnx again and send corrections soon.....

Index Labs QRP+ 5W  
Gap vertical up 10 feet  
battery power and Companion tuner  
MFJ keyer set to Iambic "B" this time

72/73 Dean N2TNN NJ  
n2tnn@ifu.net

-----  
Date: Wed, 21 Jan 1998 14:19:51 GMT  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
To: qrp-1@Lehigh.EDU  
Subject: [1565] TenTec 1254 Specs  
Message-ID: <199801211419.0AA01286@chuck.dallas.sgi.com>

Gang,

Missed the foxhunt last night and the night before, the first due to being on flight back from Phoenix and last night because I was having dinner with visitor from the frozen north Paul Valko, W8KC. I figure it's a plot to try to get TX skunked for at least one fox this season. :-)

I haven't started on the TenTec yet, but hope to do so tonight. Here are the specs as listed in the manual.

TenTec T-KIT #1254

SSB-CW-AM Microprocessor Controlled 100 KHz - 30 MHz Receiver

Frequency Coverage: 100 KHz to 30 MHz  
Modes: AM, SSB/CW  
Main Tuning: Normal or Fast Tuning  
(2.5KHz SSB, 5.0 KHz AM, or 100 KHz steps for either mode)  
"Clarifier" Control: +/- 1.5 KHz SSB/CW fine tuning between 2.5KHz steps  
Front Panel Controls: On/Off, Tuning, Volume, Clarifier, Mode Select, Memory Write (MW), VFO/Memory tuning select (V/M), Tuning Rate Select (SPEED)  
Memories: 15 programmable memories  
Circuit: Synthesized 45-75 MHz local oscillator  
45 MHz First IF, 455 KHz second IF  
Sensitivity: AM Mode - 2.5 uV for 10 dB SNR at 30% modulation  
SSB/CW mode - 0.5uV for 10 dB SNR  
Selectivity: 4 KHz @ -6 dB  
Freq/Memory Display: 6-digit green LED with mode indicators  
Power Supply: 12-15 VDC, 250 mA with no signal present  
Antenna Connector: 50 ohm input, RCA-style phono jack  
Audio: 1.5W audio output to internal speaker, plus 1/8" stereo phone jack  
Semiconductors: 10 IC's, 26 transistors, 16 diodes  
Size: 2.25" x 6.5" x 6.5" (HWD)

Assembly manual is about 112 pages Comb binding SPRAT/QRPP sized.

FYI

Chuck Adams K5FO CP-60  
<http://reality.sgi.com/adams> adams@sgi.com

-----  
Date: Wed, 21 Jan 1998 14:21:12 GMT  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
To: qrp-1@Lehigh.EDU  
Subject: [1566] TT1254 Pricing  
Message-ID: <199801211421.0AA01299@chuck.dallas.sgi.com>

Ooops. Forgot. \$199 US Dollars from Ten Tec.

Chuck Adams K5FO CP-60  
<http://reality.sgi.com/adams> adams@sgi.com

-----  
Date: Wed, 21 Jan 1998 07:17:59 -0800 (PST)  
From: Monte Stark <ku7y@sage.dri.edu>  
To: Michael Neverdosky <MichaelN@cycat.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [1567] Re: Keyer wiring convention  
Message-ID: <Pine.SUN.3.90.980121070854.21035A-1000000@vortex>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 21 Jan 1998, Michael Neverdosky wrote:

> YES. It was designed to SLOW THE TYPIST DOWN!  
> The early manual typewriters could not keep up with a fast typist so they  
> redesigned the layout so the people would not out run the machine.

The story I was told went like this.....

With a manual typewriter you must maintain a steady pace. No running the letters together as we do with a keyboard. That would jam the old machines. This was most evident with the early, manual RTTY machines!

By moving the often used keys, like "E", away from the "home" positions, it helped force a more evenly spaced rythem (sp?) and the results were far less key "jams".

What I found to be "fun" was that comming out of high school I could type about 90 wpm. Then in the Army I had to learn to use the RTTY machines. They ran at a fixed 60 wpm.

And what was being printed on the paper was about 4 letters behind what you were typing. If you started watching what was being printed you would something like "and the new....", you would see "and the...." so your fingers would just type "new" again. You would then watch it print "and the new new....."!!

It really drove home the point that 60 wpm is very slow to type if you get a good rythem (sp?) going!

Anyway, for those of you who are too young to have been around some of those things, I thought you might like the story!

And someday I will have someone watch me send and tell me how I do it! (Maybe someone else could to that and report back. It should be interesting to see just how many ways it's done!)

cul,

73, Ron,        SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

-----  
Date: Wed, 21 Jan 1998 10:22:47 -0500  
From: "Jon P. Beckett" <jbeckett@illuminet.net>  
To: kennfd@ibm.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [1568] Re: Keyers w/Analog Speed Control?  
Message-ID: <34C612C6.B0FB4480@illuminet.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Steve:

Re: Curtris Keyer

I've been using this keyer for quite a while and it has been great. Its easy to build and works better than most factory built jobs that I have seen.

Jon (AD4AB)

-----  
Date: Wed, 21 Jan 1998 08:24:08 -0700  
From: Brad Mugleston <bmug@gw1.com>  
To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>  
Subject: [1569] Email Address Help  
Message-ID: <01BD2645.F23E25C0@pps-pc10.gw1.com>  
Content-Type: text

Can anyone tell me where this address might be coming from? It is a Ham operator, I think.

@public.fhnet.cn.net

Thanks, just curious.

De KB0ROL, Brad

-----  
Date: Wed, 21 Jan 1998 09:32:58 -0600  
From: "Roger Whitaker [K9LJB]" <k9lj@iname.com>  
To: qrp-1@Lehigh.EDU  
Subject: [1570] Re: Keyer wiring convention  
Message-ID: <34C61529.C4ADB86@iname.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Monte, it is "rhythm" :-)) I used to use a model 15 on RTTY and while not a great typist, I know what you mean. You gotta have rhythm. My family loved the TTY also, NOT!!! I was in H.S. and living at home with my bedroom/hamshack on the second floor. When the model 15 came on it sounded like I had a cement mixer up there. They must have loved me a lot to put up with all that :-))

--

Roger B. Whitaker    K9LJB    QRP-1 #1403

Remember it's nice to be important,  
but it's more important to be nice.

Home page:    <http://www.cityscape.net/~whitaker/>

-----  
Date: Wed, 21 Jan 1998 10:32 -0800 (PST)  
From: eakwik@mail.hac.com  
To: qrp-1@Lehigh.EDU  
Subject: [1571] help getting started  
Message-ID: <0EN500A0540171@mail.hac.com>  
MIME-version: 1.0  
Content-type: TEXT/PLAIN; CHARSET=IBM437

Hi everyone. I have just subscribed to the list. My name is Ed and I am requesting the help of the list members. I have been reading the list postings via the web archive for a couple of months. I had my general class about 25 years ago. I operated CW on 40, 20, and 15 from CT. When I got out of college and set off on my own, I tried apartment hamming with very poor results. At the time I promised myself that I would not get back into ham radio unless I was able to have a QTH where the noise level was down and I could put up decent antennas. Well, that was a long time ago. Last summer I bought a new house and I noticed that it would be easy to put up a 40 meter dipole to about 35 feet. So I asked Santa to get me one of the Ten Tec DC receiver kits for Christmas. Well Santa (actually my wife Nancy) came through and I had a ball putting it together. I have been playing with it almost every night. I have been listening to wlaw code practice and my cw is coming back. This QTH in MI has minimal RF noise in the ham bands. I also visited Mom at Christmas and rescued my old Hallicrafters SX130 receiver and Heath HW7 QRP transceiver (see there is a QRP thread here after all). I plan on getting my Novice ticket in a couple of months after I study all the new regulations. Can copy 10 wpm on wlaw with the DC receiver so 5 wpm in the clear should be a piece of cake. My plan is to put up a 67 foot flat top center feed with balanced line and use the HW7 as my first rig to get both 40 and 15. So I have some questions.

1. The HW7 needs some work. I can hear only the strongest signals on it and lots of hum. If I get it fixed will it be OK as a Novice rig? When I built it I did not have any equipment to calibrate or tune it.

If in the hands of an expert, could it be tweaked so it would have at least the sensitivity of the Ten Tec? Where could I find an expert to work on it? I have no test equipment and can not afford to buy any. I realize that I may need to augment the selectivity with add-on audio filters or DSP.

2. Would it be more cost effective to abandon the HW7 and look for a used transceiver or qrp kit?

3. I need an antenna tuner. I am looking at the ZM-2. How difficult of a kit is it? How much harder than the Ten Tec?

4. The Novice portion of 40 is a mess with all the SW BC stations. Would it be better to get on 80 with the 67 foot flat top and the feedline length picked so the ZM-2 works with a EMTech, OHR, Ten Tec, or some other QRP kit?

Thanks for the bandwidth. Any comments are welcome.

Ed

Please reply to eakwik@hacemx.hac.com

-----  
Date: Wed, 21 Jan 1998 07:45:38 -0800 (PST)  
From: Monte Stark <ku7y@sage.dri.edu>  
To: "Roger Whitaker [K9LJB]" <k9ljb@iname.com>  
Cc: QRP-L <qrp-l@Lehigh.EDU>  
Subject: [1572] Re: Keyer wiring convention  
Message-ID: <Pine.SUN.3.90.980121073817.21173D-1000000@vortex>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Roger,

I never could afford one. But did see a few in amateur service. Still remember the loop supplies sitting on the shelf below the machine!

Another good one to use was the tape perforators. You just typed along with a LOT of noise but nothing to look at! Just a little tape coming out the side of the machine. You could look at the tape later and see if you made any errors.

You had to cut a lot of tapes to learn to read the hole

patterns. I never did that much!

Nothing like an old Model 12 sitting at your operating position clacking away while you are copying CW and logging a voice net at the same time. Next room had something like 30 or 40 tape relay machines, also VERY noisy!

Didn't think anything about it then, but it'd drive me crazy (crazier?) now!!

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

-----  
Date: Wed, 21 Jan 1998 11:03:43 -0500  
From: "Buck, Preston D" <BuckPD@corning.com>  
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>  
Subject: [1573] Re: FYBO 98 / NA CW Sprint Collision  
Message-ID: <6B137F61081DD0118DF600805FEAC5C5C8EC1D@SILVER.CORNING.COM>  
Content-Return: allowed  
Mime-Version: 1.0  
Content-Type: text/plain

Come on up. It will me and the other Novice/Tech+ ops more QSO opportunities.

Preston, n0g1m

<snip>

Don't know how bad of a problem this will be, but I have an idea. \*IF\* the QRM from NA CW is overwhelming, why not head up to the safety of the Novice freqs? Again, that's \*if\* the QRM is overwhelming. We could agree on an area (figure 80m/40m will be the only good bands that time of day) - I've found 7135-7150 to be free of BC SW.

<snip>

-----



Date: Wed, 21 Jan 1998 09:06:09 -0700  
From: Brad Mugleston <bmug@gwl.com>  
To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>  
Subject: [1574] Email Address Help  
Message-ID: <01BD264B.D0EC6D40@pps-pc10.gwl.com>  
Content-Type: text

Thanks for all the quick replies. It is from China so my paranoia isn't working overtime, now if I could just get all these people to stop watching me I'd have a good day.

Brad

-----  
Date: Wed, 21 Jan 1998 08:21:24 -0800  
From: Vic Rosenthal <rakefet@rakefet.com>  
To: eakwik@mail.hac.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [1575] Re: help getting started  
Message-ID: <34C62084.305BA8D1@rakefet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

eakwik@mail.hac.com wrote:

> 2. Would it be more cost effective to abandon the HW7 and look for a  
> used transceiver or qrp kit?

I'm going to get flamed for this, but: By today's standards, the HW7 is a piece of J-U-N-K, of historical interest only (I know, everyone will be telling me how they worked VK0IR on theirs). There are QRP kits available, like the OHR100a or the TenTec that are a MILLION (that's 1,000,000) times better. They are easier to build than the HW7 was. Cheap, too. I see slightly older versions available here for even less every day. Get one!

I'll let the others answer the other questions. I've incurred my week's portion of wrath already.

Vic K2VC0

-----  
Date: Wed, 21 Jan 1998 09:30:45 -0700  
From: David Ek <ekdave@earthlink.net>  
To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>  
Subject: [1576] Small Wonders WM-20 SSB mods & tips?  
Message-ID: <01BD264F.43B43F80.ekdave@earthlink.net>

Gang -

Soon I'll have Dave Benson's 20m SSB QRP transceiver kit in my hands (Dave, if you're reading, the order is in the mail). Does anyone have any special tips for building this rig? How about interesting mods? In particular, I'd like to add CW (in the CW subband) to this rig to make it SSB/CW. Also considering speech processing, built-in keyer (if I get the CW mod going), and I'm going to add the AADE digital frequency display.

BTW, this is the rig described in the April '97 QST.

72 de AB0GO Dave

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Date: Wed, 21 Jan 1998 18:35:15 +0200  
From: Arjen Raateland <Arjen.Raateland@vyh.fi>  
To: bruce muscolino <w6toy@pop.erols.com>, QRP-L <QRP-L@Lehigh.EDU>  
Subject: [1577] Re: preventing destruction of gel cell?  
Message-ID: <34C623C3.294@vyh.fi>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

bruce muscolino wrote:

>  
> >  
> >this, but the relay used is 'awkward'. I was just wondering if some of  
> >you you have experienced battery failure because of inadvertantly  
> >discharging the battery too much  
> >Never, to my knowledge, with a gel-cell. I have experienced "cell  
> reversal" with Nicads, though, but that is a well known phenomena and can be  
> gotten around, sometimes.

As it is, I'm recharging my drained gel cell. I started with about 1/20th of the 6,5 Ah capacity in Amperes and it slowly came to life. It takes a long time, but after a few cycles it may be as good as new, or

so I was told by a local ham. So don't despair when you accidentally drain a gel cell.

With another ham we are thinking about an automatic circuit to disconnect the load when battery voltage drops below a limit. This plan intends to avoid the relay that I saw in a publication describing a battery drain protection circuit, but as ours is only a plan until now:

If anybody on this list has a clue where to get a few bipolar latching relays with a sturdy SPDT contact (16 A would be nice), I'd like to know. Local importers say they haven't sold any in many years. It seems they have been superseded by LOGIC....

Schrack type RP 310A06 is the exact type, but similar will do. (The coil is for a nominal 6 V.)

Any (other) ideas?

--

Arjen Raateland  
Finnish Environment Institute  
SAS Support  
phone +358 9 4030 0457

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Date: Wed, 21 Jan 1998 09:45:46 -0700  
From: ji3m@maxwell.com (James R. Duffey)  
To: Brian Kassel <bkassel@dancris.com>  
Cc: qrp-L@Lehigh.EDU  
Subject: [1578] Elmer Projects (long)  
Message-ID: <v0213050eb0ebbbd973d0@[192.31.66.158]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Brian - I read your post on "Elmer kits" with some interest. I have toyed with similar ideas. If the AZ sQRPions are considering something along these lines, I would like to share some of my thoughts on the subject with you.

I think that the kits, or projects, as I prefer to call them, should lead to something useful, help the builder learn concepts and not just plug components in and solder, be straightforward to build, require a minimum of test gear, and, upon completion, result in the builder being able to undertake simple projects such as those printed in QST or the Handbook. Oh yeah, he ought to build something he can use and show off out of the whole thing too.

I think a series of "projects" (which could be packaged as kits I suppose) based on the partitioning of a receiver would be an useful place to start. I would recommend using "semi ugly construction" with the popular Radio Shack snap apart circuit boards. These have space for a couple of dip packages and associated components. These are easy to get and would necessarily limit the complexity of the circuits. I vaguely remember Ade Weiss, W0RSP, doing something like this in the 70s in the CQ column he had, but I may be a bit off in this. Ade??

The use of circuit boards and parts available at Radio Shack would reduce the cost of the project significantly. I suppose that a bag of hard to get parts like torroids, crystals, and NE602s could be made available at a modest cost.

I tend to think in reverse of normal people, so I think a novice builder should start at the output end of a receiver and work towards the input. In this fashion the beginner starts with the simplest stuff first, audio amplifiers and filters, and ends up with the more complicated stuff, oscillators, RF amplifiers and filters when he/she has more experience under his belt. With very little careful thought, I think a set of projects like this is appropriate for a beginner who wants to learn to build and understand his own gear;

project 1; an audio amplifier. The ubiquitous LM386 may be a good choice. This of course can be tested with the output of any radio receiver, stereo, CD player, Walkman, or a thumb pressed on the volume control (listen for 60 Hz hum). Some simple frequency response shaping can be done in this stage to introduce the beginner to feedback and filtering.

project 1a) an audio filter that would limit bandwidth. A simple opamp audio filter would work, as would a passive LC filter. If a beginner already had a receiver, this combination would serve as a useful accessory to his commercial rig.

project 2) a product detector. The NE602/612 is probably a good choice here as it is pretty foolproof and widely understood. If an IF like 2.5, 5, or 10 MHz is chosen, then project 2) can be checked out along with project 1 as a direct conversion receiver for WWV. Now, with 2 or three simple projects the beginner has a working receiver. Granted WWV will sound terrible, but this is encouraging right?

project 2)a An antenna. If the beginner doesn't have one he will need one now. A 40M dipole should result in a good 5 MHz WWV signal, as will a modified SLV.

project 3) The IF filter. A simple crystal filter with 1 or 2 crystals should be a good start. The crystals can be supplied matched, or the user can use the oscillator in 2 and another receiver to select them, or the

oscillator in project 4) and the receiver designed in projects 1 and 2 to select them. Again, WWV should be able to be heard through projects 3, 2, and 1 with a reasonable antenna. The novice will now understand loss through the crystal filter and how the bandwidth changes as additional filtering is added as well.

project 4) The front end. Another NE602/612. Now things are getting complicated, but the beginner can handle it because he has some experience under his belt. A 2 MHz VFO should give a good stable VFO with a 5MHz IF for a 40 M receiver, or a 5MHz VFO and a 5MHz IF will result in a good 30 M receiver. With projects 1-4 one now has a simple 40 M receiver without front end filtering. At this point he probably notices that he still hears WWV, which is a good introduction to IF leak through, which can be solved by;

project 4a) A WWV suck out trap. A simple series LC circuit resonant at 5MHz can be simply tuned to shunt the unwanted 5 MHz WWV signal to ground. Now additional front end filtering should be added;

project 4b) The front end filtering. A two stage filter can be added, one stage at a time. The beginner can see how additional filtering improves selectivity and experiment with the coupling between the two tuned circuits.

The above projects will result in a usable receiver of moderate performance, and, more importantly, result in a builder who understands what he has built. The receiver can be expanded with additional projects;

an IF amplifier  
post IF filtering,  
a mute circuit for use with a transmitter,  
RIT,  
AGC, and  
better audio filtering.

A transmitter can be built similarly in stages. Note in this case I think in normal order;

project 1) an oscillator, or if transceive with the already built receiver is desired, an oscillator/mixer. The receiver can be used to see if this stage is working.

project 2) a keyed buffer, again using the receiver to trouble shoot things. One might even be able to tell the difference between the stability of keying an oscillator on and off, and letting it run and keying the buffer.

project 3) a final.

Doug deMaw had a similar series of transmitter projects in one of his "QRP Notebook" books.

With the above projects being built on small well partitioned boards, it should be a simple matter to modify and experiment with better circuits later. The audio amplifier could be replaced with one that is more Hi-Fi as an example, or the 602s could be replaced with a double balanced mixer and oscillator. At this point the builder should need less hand holding and has probably moved out of the realm of "Elmering". He can be an "Elmer" himself.

I know there are some limitations to this route and the choice of IF is not the best, but it does have the advantage of getting to a workable receiver quickly with a minimum of test equipment. And the now experienced builder will know how to change IFs to build a better receiver.

I haven't actually built any of this, so I don't know if it is feasible, but it seems realisable. This is just my \$0.02. I have some other ideas, but this has already grown too long.

I would be willing to help with such a project if you can't find enough qualified sQRPions :^). If it is really aimed at beginners, some simple electronics and receiver theory should be included with the projects. Ideally the builder should be able to use Paul's QRP Handbook, The ARRL Handbook, Solid State Design, or some other reference book to help him with the theory, so those should also be the sources of the circuits, if possible. - Duffey KK6MC/5

James R Duffey KK6MC/5 DM65  
30 Casa Loma Road  
Cedar Crest, NM 87008

-----  
Date: Wed, 21 Jan 1998 09:47:28 -0700 (MST)  
From: Joe Gervais <vole@primenet.com>  
To: qrp-1@Lehigh.EDU  
Subject: [1579] Re: Email Address Help / Big Brother  
Message-ID: <199801211647.JAA03216@usr08.primenet.com>

Brad (KB0ROL) wrote:

>

> It is from China so my paranoia isn't working overtime, now if I could  
> just get all these people to stop watching me I'd have a good day.

Brad, could you please move just a little to the left?  
You're blocking the monitor....

:)

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"Are the voices in my head bothering you?" -- The Gods Must Be Crazy

-----  
Date: Wed, 21 Jan 1998 9:05:00 -0600  
From: Dan Tayloe-P26412 <Dan\_Tayloe-P26412@email.mot.com>  
To: Bigbob97@aol.com, qrp-1@Lehigh.EDU  
Message-ID: <M1684681.025.56reu.1.980121162143Z.CC-MAIL\*/OU=SATCG/OU=AZBH/  
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Bob:

This is a common osc. problem. The oscillator usually has a cap that sets the feedback. When you go low enough in frequency, the cap become too small to provide enough feedback to keep running.

I am not sure which oscillator layout you are using, but if it has a cap from the FET gate to the inductor (which goes to ground), you probably need to make that cap larger. Do not go for overkill. Use enough to make the osc reliably start. Making the cap too large will tend to lower the Q of the circuit, and make it more drift prone.

If there is not such a cap, you probably have a cap from the gate to the source, and another from the source to ground. Make these a bit larger.

I believe I have seen this type of osc run without a source RF choke, using a 330 to 1000 ohm resistor instead. I doubt that your homebrew choke is doing you much good, which may also be the source of your problem. 40 turns on a resistor is not much inductance. Typical circuits use 100 - 200 uh, which is a lot of inductance. You could try removing your choke and try using a 470 resistor.

By the way, I once made a receiver with a 5 MHz IF once also. It made a great 5 MHz WWV receiver. It is difficult to filter out a megawatt

signal from the front end of a receiver that is intended to receive tiny little QRP signals. I have found that 4.0 MHz crystals are very common and also make good IF, even for 80m cw (using a 7.5 MHz VFO).

If 5 MHz bleed though is not a problem for you, I would suggest using lower frequency VFO. This will minimize drift \*a lot\*. 2 MHz can be used to get 40m, 1.5 MHz will get 3.5 MHz, and 3.2 MHz will get 1.8 MHz.

It is very good to hear about people trying to build things! Good luck!

- Dan Tayloe, N7VE, Phoenix, AZ, QRPL # 696, Az ScQRPions

>For some time now I have been building a receiver. The IF is  
>5.0 MHz and the VFO is a Colpitts circuit using an MPF102.  
>Three coils are would on toroids. One for 160, one for 80, and  
>one for 40. The VFO works at 7.000, 9.000 and 12.000. The  
>problem is that I can't get the 160 position to tune below about  
>1975 KHz. That is, the VFO won't go much below 7.000. Obviously,  
>I need it to go down to 6.800 in order to tune from 1800 to 2000.

>What happens is that as I tune down there is a point at which it  
>just stops oscillating.

I thought I would have problems with the oscillator not going  
>high enough. Never thought it would drop out on the down side.  
>The capacitance is varied with an MV2115 varactor diode. The  
>source lead of the MPF102 has an RF choke (resistor with 40  
>turns of #30 wire on it) going to ground. My thoughts were  
>that perhaps this should have fewer turns on it.

-----  
Date: Wed, 21 Jan 1998 10:04:17 -0700  
From: Niel Skousen <nskousen@scientech.com>  
To: qrp-l@Lehigh.EDU  
Subject: [1581] Re: Elmer Projects  
Message-ID: <3.0.3.32.19980121100417.007db410@eaglerock.if.scientech.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I like the ideas coming out. DigiKey (and others as well I suspect) have some very low cost small proto boards for both smt and leaded parts. these



are in the 1-2 in^2 size for \$1 or so. When built, as Duffy suggested, in a modular fashion and mounted on a solid gnd (larger Cu pdb) this would eliminate a lot of the build / debug coupling kind of prob's.

Another approach is to use the Wilderness 40A kit with sections of the EE20 book. the book is perhaps more than many would want to work through, but provides a LOT of help and preworked learning for the Elmers supporting this activity.

Count me in as a support resource. Working on a contribution (kit) w/ a friend more if it germinates... :-)

Niel

At 09:45 AM 1/21/98 -0700, you wrote:

>Brian - I read your post on "Elmer kits" with some interest. I have toyed  
>

>I would recommend using "semi ugly construction" with the popular Radio  
>Shack snap apart circuit boards. These have space for a couple of dip  
>packages and associated components. These are easy to get and would  
>necessarily limit the complexity of the circuits. I vaguely remember Ade  
>

>I would be willing to help with such a project if you can't find enough  
>qualified sQRPions :^). If it is really aimed at beginners, some simple  
>electronics and receiver theory should be included with the projects.  
>Ideally the builder should be able to use Paul's QRP Handbook, The ARRL  
>Handbook, Solid State Design, or some other reference book to help him with  
>the theory, so those should also be the sources of the circuits, if  
>possible. - Duffey KK6MC/5  
>

-----  
Niel Skousen: Sr.Eng, SCIENTECH.SPG/CFG/NUSI  
208.525.3742, 524.9229 FAX 529.4721 Idaho Falls ID  
nskousen@scientech.com WA7SSA QRP-L.119  
Z-----DN33wm--- . . . -

-----  
Date: Wed, 21 Jan 1998 13:49:30 -0000  
From: "Bob Duckworth" <wb4mnf@atl.org>  
To: "baswaplist" <baswaplist@foothill.net>, "qrp" <qrp-l@Lehigh.EDU>  
Subject: [1582] 19" relay racks to sell or swap and warranty humor.  
Message-ID: <199801211737.MAA24859@atl.org>

I recently posted brushed Aluminum relay racks  
for sale in Atlanta. I have 4 of the Harris/Dracon

left and two of the less rugged, no brand name.

These are 19" x 7' relay racks. They are not cabinets.  
I've reduced the price to \$85/each for the Harris for  
local pickup and \$50/each for the no-brand-name  
for local pickup.

14th street near Wolf Camera, Atlanta GA

\$100 and \$60 plus shipping from 30306 if I have to  
pack and ship.

-bob  
wb4mnf (Atlanta)  
404-888-0389

The following conversation with Victor took place about an hour  
ago. I had called regarding a problem with my sons holiday gift.  
It's the best excuse yet. I thought I'd heard them all!

-----  
-----

Hello, this is Victor, how may I help you.

-My watch doesn't work.

Do you see anything on the display?

-Well yes, but the light doesn't work so I can't read it in the dark.

The light on that product is very dim, you have to look at an angle to  
see it.

-Are you telling me the light doesn't work?

The light is no longer a feature of that product.

-So even if you send me a new one, the light won't work?

The light is no longer a feature of that product.

-Well what else can you do for me?

Call this number ##### and a refund will be issued to  
the purchaser of record.



Best Work! Thanks Dean.

-Ed

--

Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.  
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR  
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

-----  
Date: Wed, 21 Jan 1998 12:19:36 -0600 (CST)  
From: Adrian Weiss <aweiss@sunflowr.usd.edu>  
To: QRP-L@fidoii.CC.lehigh.EDU  
Subject: [1584] RE: Sorry Dean! + Effects of "wet" twinlead.  
Message-ID: <Pine.SOL.3.94.980121121421.5902B-100000@sunburst>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well... I'm losing my memory. In my last post, I "p.s.'d" that I'd just worked the FOX and said "Thanks Bruce". I'm finding these slips hard to believe. I just said on the air "RRR Tnx Dean", which is the correct name.... arghhhh.

Incidentally, while I'm here, a comment on something in the thread about balanced antennas / feeders last week.

Yes, wetness affects balanced lines, especially the T.V. twinlead variety with solid spacing material rather than air. Wetness causes a marked variation in velocity factor. That in turn changes the electrical length of the feedline. That in turn changes the impedance appearing at the tuner end of the feedline. That requires retuning. However, the tuner should be able to handle the changes with a slight resetting. However, the Zc of the feedline is about the same, so the mismatch at the antenna is the same. In other words, wetness is similar to changing the length of the feedline.

73, Ade

-----  
Date: Wed, 21 Jan 1998 12:19:20 -0500  
From: "Bob Kellogg" <ae4ic@nr.infi.net>  
To: "qrpforum" <qrp-l@Lehigh.EDU>  
Subject: [1585] Fox 1-21-98  
Message-ID: <199801211824.NAA18190@mailhost.infi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Dean,

You think you were confused by SK? After our exchange I looked at my notes and saw that I'd written your name as AN. So, I listened to another exchange or two and said to myself, "that's right, he's sending his name as AN -- why is he doing that? I know his name is DE AN .....oh!"

Even a brain like mine can be fooled sometimes! (Ellen says, "Ha!, What he doesn't know won't hurt him")

CUL,

Bob Kellogg, AE4IC, Greensboro, NC

Prolably, but not nececelery. -- Benny Hill

-----  
Date: Wed, 21 Jan 1998 12:41:50 -0600  
From: "C.D. Rakes" <cdrakes@ipa.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [1586] Thanks  
Message-ID: <199801211835.MAA13771@siren.ipa.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

I would like to thank all of you, who answered my inquiry about the S & S TAC-1.

I believe that I received at least a dozen replays and about 99% were in unison about the quality and performance of the TAC-1.

So, this morning, I mailed off an order for one on 80-meters/keyer.

Really appreciate this format where information is so freely shared.

Thanks, Charles KI5AZ

-----  
Date: Wed, 21 Jan 1998 18:29:40 -0000  
From: George Dobbs <g3rjv@gqrp.demon.co.uk>  
To: QRP-L@Lehigh.EDU  
Subject: [1587] Dayton Rooms  
Message-ID: <01bd269a\$8971d640\$LocalHost@kcubkvq1>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

To Whom It May Concern.....

Having read Hank's posting  
I fille din two forms last year.....  
and having tried to confirm my two rooms at Days Inn South  
-they refused because they didn't have the elusive "Myron list"

... is it not about time we had open season on rooms?  
Just let people call and book them.

Some of us are coming too far to sleep in cars.

Best Wishes

George Dobbs G3RJV  
g3rjv@gqrp.demon.co.uk  
The G QRP Club

"It is vain to do with more  
what can be done with less"  
William of Occum. 1290-1350

-----  
Date: Wed, 21 Jan 1998 10:36:44 -0800  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
To: <ae4ic@nr.infi.net>  
Cc: "QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [1588] Re: Fox 1-21-98  
Message-ID: <01bd269b\$8611c5e0\$309f5ecf@double\_trouble.reliablemeters.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Bob --

Hi hi hi. The same thing happened to me! ( "this is An", "this is An",  
"from An". What does he mean? His name is Dean, that's D E A N and he's  
sending D E A....oh yeah... never mind)

Mike K1mg

>You think you were confused by SK? After our exchange I looked at my notes  
>and saw that I'd written your name as AN....>Bob Kellogg

>

-----  
Date: Wed, 21 Jan 1998 11:40:17 -0700 (MST)  
From: Joe Gervais <vole@primenet.com>  
To: qrp-1@Lehigh.EDU  
Subject: [1589] Re: Elmer Projects  
Message-ID: <199801211840.LAA08449@usr01.primenet.com>

Howdy,

[ Lots of good stuff from Duffey (KK6MC/5) deleted for bandwidth ]

Well now that much out the ScQRPion cat is out of the proverbial bag, I'll kick in a few bits of data. :) We've been working on this awhile, and were hoping to get it out before someone else realized the need. ;-)

What Bertie and I really want is to learn how to build radios. We think we're representative of the majority of QRPers - we don't remember our college math, we have no background in electronics (to speak of), but we *\*really\** want to *\*learn\**. We want, no make that *\*need\**, plain English help for the Clueless.

Everything a competent builder takes for granted is complete magic to me! I understand how individual components work, but start tossing them all together and I quickly lose track of how it works and *\*why\**.

Some math is necessary, but before you throw a formula at us give us a full, clear, common sense description of why things are done, how it works, and how varying parts will change the circuit. Why do those 0.1pF caps keep showing up everywhere? What made PNP a better choice than NPN? Heck, why is one VFO stable and the other isn't? WE DON'T KNOW! And there's nowhere to find out, short of going back to college.

In all seriousness, write the plain English like you were trying to teach freshman high school

students. If you keep that in mind, you're less likely to make assumptions on what we Newbie Wannabe Builders know. That, IMHO, has always been the worst part of learning to HB.

Articles on building radios have *\*always\** been written for people who already know how to build radios! Whether you realize it or not, it's true. I've found a few *\*rare\** exceptions, but that's it.

So there you have it. I *\*really\** want to build my own radios from scratch. I'm lucky - I have lots of local Elmers (plus QRP-L) to help me along. Not everyone has that luxury.

We work, we have families, so we can't just sit down and start reading a bunch of engineering books. We need a catalyst. We need a Rosetta Stone of HB. We need a plain English, common sense guide to help us make the leap from "Meet Mr. Electron" to "How to Improve Selectivity on Your Scratch Kit".

The Prime Directive is to take Clueless HB Newbie like myself and teach me to build my own gear. We Newbies want to join you!!! Talk down at our level! You won't offend us - quite the contrary - we'll

be eternally thankful!

We ScQRPions will now crawl back into our dens and get back to the project.... :-)

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"'Fraid nobody around here, understands my potato;  
Think I'm only a Spudboy, looking for a real tomato." -DEVO

-----

Date: Wed, 21 Jan 1998 18:53:32 +0000  
From: Ed Loranger <we6w@qsl.net>  
To: ku7y@sage.dri.edu  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [1590] Re: Keyer wiring convention



Message-ID: <34C6442C.7DB4@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hey Ron, I really enjoyed your RTTY history story. I too was quite the typist on these RTTY terminals.

I remember lock-step typing as well. Once you sync'd up with a remote station via rtty, you have to maintain a certain typing speed or you lose the secure Comm-link. that was neat.

But the real fun was playing typing games across the network. Whatever you saw on your printer was the same as everyone else's.

So I got good at sending a line of information (of minimum importance), and typing another line before the printer was done. Then just as the printer was about to carriage return, you submit another line of text. The printer freaked out and only performed a line feed, adding your text from its current location to the end, where it danced and danced and danced. The trick when it got to the end was guessing when it was about done with your last line of text, then you submit a new line, timed at the Carriage return.

Man, you could send 3 to four lines and have that printhead drill a hole in the paper.

OK. Irresponsible. I was 20, single, and working Graveyard at 3:AM.

-Ed

--

Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.  
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR  
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

-----

Date: 21 Jan 1998 13:56:08 -0500  
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>  
To: qrp-l;  
Subject: [1591] 2N2222 audio amplifier - no transformers!  
Message-ID: <1998Jan21.135608-0500@[130.113.234.7]>

2N2222 building contest gang:

I owe an apology to Doug Hendricks. When he announced the rules for the 2N2222 radio contest, I gave him a hard time, claiming

that a transformerless audio amplifier was too difficult using only NPN transistors. Well, one design has already surfaced, and here's another, inspired by the TTL logic totem-pole output stage.

Specs:

voltage gain.....about 30

input impedance.....14K ohms

Supply voltage.....12v - 15v

Current drain.....20ma

Output power (8ohm).. 600mW

Frequency response....300 Hz to 100 Khz

This amplifier is temperature compensated for ambient temperature changes, but care must be taken to compensate for load-induced temperature changes. Otherwise, this amplifier could suffer "thermal runaway"...as the output transistors heat up (under load), they draw more current, and heat up more...etc. until smoke escapes - end of story. Q1 and Q2 can be plastic (T072) but must be heat-sinked if driving low-impedance loads.

Thermal runaway can be avoided in this design by heat-sinking Q4 to the same heatsink as Q1 and Q2. When Q1 and Q2 heat up, Q4 senses the temperature rise, and backs off the DC drive to these transistors. Q3 should not be heat-sinked. I epoxied Q1 and Q2, with Q4 sandwiched between them onto a sheet of aluminum 1.5 sq. inches. Tests showed that this arrangement caused slight temperature overcompensation.

You can perform this test by monitoring DC current drawn by this amplifier. Set pot R3 so that the amplifier draws 20 ma. current. Heat up the heatsink with a soldering iron, and watch the current. If current goes down, Q4 is thermally coupled too tightly to Q1 and Q2 (overcompensated). Ideally, current shouldn't budge.

Pot R3 sets the quiescent current, biasing Q1 and Q2 into Class AB. Before turning on the power, set this pot about mid-range. The amplifier will draw about 8 ma. When R3's resistance is turned higher, Q1 and Q2 will start to turn on and current goes up. Adjust R3 for about 20 ma. total current - this should give quite low distortion.

Eight-ohm speakers will work OK, but higher load resistances stress Q1 and Q2 less. Try to wire stereo headphones in series.

Spice Netlist:

\* Node "0" is ground

Vcc 1 0 DC +12v

Vin 11 0 AC .01v \* signal input

\* C B E

Q1 3 5 0 Q2N2222

Q2 1 4 3 Q2N2222  
Q3 4 8 5 Q2N2222  
Q4 8 9 10 Q2N2222  
  
R1 2 0 8 \*load resistor  
R2 1 6 330  
R3 6 4 330  
R4 5 0 100 \*100 ohm trimpot  
R5 10 0 2.7K  
R6 1 8 68K  
R7 3 8 68K  
R8 1 9 150K  
R9 9 0 15K  
  
C1 3 2 68uf \*Electrolytic  
C2 6 3 4.7uf \*Electrolytic  
C3 11 9 .047uf  
C4 4 8 330pf \*Optional: eliminates hiss  
.END

Glen VE3DNL leinwebe@mcmaster.ca

-----  
Date: Wed, 21 Jan 1998 11:03:36 -0800 (PST)  
From: Monte Stark <ku7y@sage.dri.edu>  
To: Joe Gervais <vole@primenet.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [1592] Re: Elmer Projects  
Message-ID: <Pine.SUN.3.90.980121105326.21879C-1000000@vortex>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Joe,

I have been trying to talk someone into doing a column on  
just that for the past couple of years!

One name that has been suggested is: "HB for Idiots" !!  
(Don't worry Joe, I will not tell who suggested that name)!!

And another column that has you build simple test equipment  
along with how to use it on the HB project!

This needs someone that has the ability to reduce complex  
issues, like how radios work, into every day english that  
we can all understand. And work us up to using the math so even

I can figure things out "all by myself"!!

Now all I need is someone to do it!

It's like Sonny and his side kick used to sing...."And the search go on..." (Well, it's close!)

Who will be first to step up to the plate? :-)

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

-----  
Date: Wed, 21 Jan 1998 13:02:48 -0600  
From: Ed Manuel <n5em@flash.net>  
To: qrp-l@Lehigh.EDU  
Subject: [1593] Dayton FDIM Rooms  
Message-ID: <3.0.5.32.19980121130248.00876d60@pop.flash.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Isn't there ANYONE who lives close enough to Canton to go over to Myron's house and help him by providing a contact and source of info?

Ed, N5EM

Ed Manuel, N5EM  
n5em@amsat.org  
n5em@flash.net

-----  
Date: Wed, 21 Jan 1998 10:11:54 -0900  
From: "Larsen, Jim" <JLarsen@alascom.att.com>  
To: "'vole@primenet.com'" <vole@primenet.com>  
Cc: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>  
Subject: [1594] RE: Elmer Projects  
Message-ID: <D8F0A14EBB6CD11189D4006097E5893A09969E@alascomexca.alascom.att.com>

MIME-Version: 1.0  
Content-Type: text/plain

From: Joe Gervais [SMTP:vole@primenet.com]

"Articles on building radios have \*always\* been written for people who already know how to build radios! Whether you realize it or not, it's true. I've found a few \*rare\* exceptions, but that's it."

=====

Man-o-man-o-man....did you nail this one. I agree!!!!!!

=====

This whole new thread is so exciting, I am all a-twitter.  
Thank you in advance.

Jim, AL7FS

-----

Date: Wed, 21 Jan 1998 14:13:48 -0500  
From: "Paul Christensen" <paulc@mediaone.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [1595] SST Frequency Range Modification  
Message-ID: <010f01bd26a0\$b3d5d480\$502c8118@jaxadmin2-89.se.mediaone.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Has anyone tried to extend the frequency range of their Wilderness SST by paralleling another L.O. crystal? If so, I would be interested in knowing how far the added range is extended on 20M and 40M, and what other components were used. Thanks!

-Paul, W9AC

-----

Date: Wed, 21 Jan 1998 19:21:21 +0000  
From: Ed Loranger <we6w@qsl.net>

To: vole@primenet.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [1596] Re: Elmer Projects  
Message-ID: <34C64AB1.4A01@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Nice piece of work, Joe.

I remember being at this level and below. What really helped me considerably was getting the ARRL Amateur Radio Handbook. I started reading on Page 1.

I continued to read and started studying the concepts. Impedance became clearer.  $X_c/X_L$ ; tuned circuits, Q. Started making sense.

Then I took the E60A, College Electronics class. Two months into it I wrote a paper on antennas. It was to be about 70% of our final Grade.

The instructor gave me an 'F'. Said I couldn't have possibly learned all this in 2-1/2 months--"you Plagarized". He changed it to an 'A' after I gave him an immediate lecture on Antennas, Radio Direction Finding, and other Communications knowledge I had learned in the military and from the handbook. He realized that I really did know the material. Yet I had no idea there was anything special about my report!

What's my point? Well, when we measure ourselves, sometimes we don't realized how advanced we have become. And if one studies the handbook, not just 'Reference' from it, one will quickly grow in knowledge.

Everyone in the QRP-1 community gets and 'A' from me.

-Ed

--

Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.  
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR  
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

-----  
Date: Wed, 21 Jan 1998 13:38:42 -0600  
From: "Jeff M. Gold" <JGold@tntech.edu>

To: QRP-L <qrp-l@Lehigh.EDU>  
Subject: [1597] Wilderness Norcal 40 A [For Sale]  
Message-ID: <34C64EC2.6B1AB40A@tntech.edu>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

I have a Wilderness Norcal 40A with KC1 frequency counter/memory keyer in great working condition. It has a large speaker built into the upper case (I don't like headphones). It also has a 10 turn pot to make tuning much easier. There are some scratches on the top from where I drilled holes for the Speaker. The speaker works very well as does the transceiver. About best receiver on a QRP kit, in my opinion.

\$137 shipped US.

jeff, AC4HF

--

Jeff M. Gold, Manager  
Academic Computing Support  
Tennessee Technological University  
(615)372-3979

-----  
Date: Wed, 21 Jan 1998 11:37:27 -0800  
From: Bob Bayha <rbayha@ix.netcom.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [1598] Re: Elmer Projects  
Message-ID: <34C64E76.B4D77254@ix.netcom.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I am in exact agreement with everything that Joe put forth.... One thing I would like to see thrown into the equation is: Optionally how do you use test equipment (i.e. Scopes, Generators, Counters, etc) to align, confirm correct operation, etc. for those that may have access to test equipment. Might as well learn this at the same time. But, procedures for those without, also. Boy, am I looking forward to this happening. At one point someone mentioned that there may not be enough "interest" to proceed with this type of project. IMHO, the lack of this type of "instruction" is what just may be keeping a lot of folks away. Let's lower the barriers to all the potential new comers. I, for one, will be an active participant (on the learning end!!!).

Bob Bayha, K6RKB

Joe Gervais wrote:

> Howdy,  
>  
> [ Lots of good stuff from Duffey (KK6MC/5) deleted for bandwidth ]  
>  
> Well now that much out the ScQRPion cat is out of  
> the proverbial bag, I'll kick in a few bits of data. :)  
> We've been working on this awhile, and were hoping  
> to get it out before someone else realized the  
> need. ;-)   
> -----snip-----

-----  
Date: Wed, 21 Jan 1998 11:47:02 -0800  
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)  
To: qrp-l@Lehigh.EDU  
Subject: [1599] FDIM  
Message-ID: <3.0.1.32.19980121114702.006851e8@dpol.k12.ca.us>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

It's great to see that ARCI is officially sponsoring the FDIM this year. I wholeheartedly suggest that you make every effort to attend this event. The FDIM committee has reduced the charge to \$10, but for that \$10 you get circuit boards for George Dobbs' talk, and a printed, bound copy of the proceedings, plus ARCI will provide coffee and they have to rent the rooms and the audio visual equipment. \$10 is more than a fair price. ARCI is subsidizing this event as one of the benefits of ARCI membership. They also arrange and subsidize the ARCI booth at the hamvention, the open house held Thursday, Friday and Saturday evenings in the hospitality room, arrange for the banquet on Friday evening, and do a good job hosting the event. These events cost money, and ARCI has stepped up to the plate to do the job.

This year there will not be a Thursday night NorCal speaker. I work as a teacher, and I must get my principal's permission to miss work. He will allow me to miss Thursday and Friday, but refuses to let me miss Wednesday. It is his decision, and I am glad that he will at least allow me to miss Thursday and Friday. The earliest flight that I could catch is at 7:00 PM here on the west coast, which would mean that it is 10:00 PM Dayton time when I leave. I did the red eye flight once and will never do it again. I



will not be able to attend the FDIM symposiums because of travel problems, but I am going to register because I want the circuit boards and the compendium notes, and I feel that they certainly are worth \$10. Because Jim and I won't be leaving until Thursday morning, we won't get to Dayton until Thursday evening. It is not possible for us to host the open house this year on Thursday, so we have turned our "time slot" back to the committee.

Please support the events at Dayton. I will attend Dayton, Dallas, Ft. Tuthill and Pacificon this year. I see many, many friends at each event, and I enjoy them all. Each will have QRP Forums this year, and each will be different. The FDIM committee is working very hard and I guarantee that you will enjoy the event. The speaker's list is outstanding, I have seen a partial, preliminary list, and take it from you, you want to be there.

But Bob, I still want Dayton Weather Reports, I gotta figure out if I need extra rain gear!! 72, Doug, KI6DS

-----  
Date: Wed, 21 Jan 1998 12:50:34 -0700 (MST)  
From: Bob Hightower <ki7mn@dancris.com>  
To: qrp-l@Lehigh.EDU  
Subject: [1600] Ft Tuthill '98..July 24-26  
Message-ID: <199801211950.MAA02018@user2.dancris.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

The Arizona ScQRPions are gearing up for Fort Tuthill '98. Last year was the first attempt at a QRP symposium, organized by Roger N7KT, and it was a big success. This year, we're going to do it again, with more involvement by the ScQRPions.

There will be another round of fine speakers on topics of interest to all in the qrp world, some great stuff for sale, and lots of time to meet with old friends and make new ones.

Clubs please make special note: if you have some literature you would like to have available at the qrp area, or some items such as kits you would like to offer for sale, please e-mail me (not the list), and I'll make arrangements to do so. We have visitors from all over the country, and a few from overseas, so you might just draw someone from your locale into the fold.

Once again, there will be a group cook-out on Saturday night in the group camping area...bring your own main course, and we'll have the other fixin's for you.

Tentatively, Mike NQ7K is planning on setting up a live internet feed so the talks can be made available to anyone with web access. I'll try to keep you posted on this as the logistics are worked out.

So, if you can, plan on being there. There is lots of room to camp, Flagstaff is very close if you need/want to stay in a motel or hotel, and we all plan to have a good time. Standard hamfest fare: swapmeet, commercial sales, many meetings of interest, and lots of friends.

73,

Bob KI7MN (ki7mn@dancris.com) Chandler, AZ

Grid DM43bi Lat 33.334500 Long -111.87260

NorCal #1221 ARCI #8918 Qrp-1 #271 CQC #274 AK QRP #30 ARRL

<http://www.dancris.com/~ki7mn>

WIMPS: QSO's=19 30=19 17=0 12=0 States=15/0/0 DX 0/0/0 QSL's=6

-----  
Date: Wed, 21 Jan 1998 20:14:26 +0000

From: Ed Loranger <we6w@qsl.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [1601] Mechanical Filter Progress; Bazooka Antenna

Message-ID: <34C65722.2C91@qsl.net>

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Two topics: My progress on researching Mechanical Filters.

And also a Summary of what I've learned about the Bazooka Antenna.

Mechanical Filters:

Ok. I Found two references on my book shelf on Mechanical Filters.

"Secrets of RF Circuit Design"; Joseph J. Carr.

And a borrowed book: "Radio Handbook"; William I. Orr, W6SAI (23rd edition).

The two books whet your appetite but don't tell you HOW to build the filters.

So, one member sent me a Interdigital Filter for 70 cm. I then checked out the IBM Patent Database for further knowledge.

<http://www.patents.ibm.com/>

I first searched for 'Mechanical AND Filters' --> 51 entries found.

After some review and printing :), I then thought of the Collins Radio Co. So I did a "Advanced Search" which allows you to enter

the Patent Assignee. I entered Collins. I got 5 patents or so returned. NO IMAGES AVAILABLE. So I wrote down the inventor names, Johnson, Robert A.; Stump, Theodore M., Teske, Roger J. and Peterson, Wesley D. A new search by "inventor" was more fruitful.

I have learned some about connecting methods for ferrite rods to the metal discs. Use of Piezo transducers, coupling methods and some design criteria. Also I have seen both RF and High Frequency Audio mechanical filter designs.

Unfortunately, the design and testing criteria is missing. But I'm making progress.

I'll keep at it.

-----  
Bazooka Antennas. The key here is Efficiency. The data that was faxed to me shows that the standard double bazooka operates at about 99% efficiency and 1:1 SWR at the Center Design Frequency, nearly Identical in performance as a dipole. It has about 14percent greater bandwidth and efficiency drops to about 92% at band edges on the reference graph for the entire 80 meter band.

The antenna I would not use is the Crossed Bazooka design. It has a 50% better-than-dipole impedance bandwidth, but pretty much only 80% efficient.

The standard Bazooka (Not Crossed Bazooka doublet) is just a dipole at the design frequency and works comparably to a typical dipole. It's efficiency remains high (abt. 92%) at its edges.

The Bazooka cannot be used on other bands due to the reflective/reactive tuning element and its effect.

Remember, there is a big difference between Radiation efficiency and a SWR of 1:1. A 50 ohm load is 1:1 and 0% efficient. The Standard Bazooka is 1:1 and 99+% efficient. The Snyder Dipole, DXSpecial etc, are around 80% efficient. So I'll give the Bazooka a try.

Not a magic antenna, for sure. Just efficient enough to pull my ant. tuner out of the line.

We'll see if I still get the Foxii.

-Ed

--

Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.  
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR  
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

-----  
Date: Wed, 21 Jan 1998 15:37:27 -0500  
From: sgordon1@ibm.net  
To: qrp-1@Lehigh.EDU  
Subject: [1602] TNC Software  
Message-ID: <34C65C78.23AC@ibm.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Does anyone have or know of some freeware for my Kantronics KAM tnc  
thought I might get on for some qrp rtty. I use to use Pacfile, but I  
am sure there are some win95 products out there now comparible? It has  
been a while and can't seem to find my software to load it.

Thanks  
Scott - N4JXI

-----  
Date: Wed, 21 Jan 1998 15:39:11 -0500  
From: Mel Evans <MelEvansGM6JAG@compuserve.com>  
To: B Kassell <bkassel@dancris.com>  
Cc: qrp-1 <qrp-1@Lehigh.EDU>  
Subject: [1603] Circad in DOS  
Message-ID: <199801211539\_MC2-3027-D733@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Disposition: inline

Hi There,

Unless you MUST or HAVE to use Circad for other reasons, but you want to  
work in DOS, you could look for a shareware program called "Quickroute"  
from Power Software. The demo version is fully featured and lets you prin=  
t

out on a nine-pin dot matrix upwards, gives you up to seven layers of =

screen, lets you mirror, lets you print out parts placement, you can add  
lettering and ID and print neg or pos versions. There is a schematic  
programme as well in there somewhere, but I've never been able to access  
it, this lets you produce schematics for mags etc. There is also a limited=

auto-route function which will auto route around 90 p.c. of most simple

circuits, and you can customize the library yourself for specialist applications.

The limitation on the prog is in the number of times you can use the evaluation version, 50 in total shhhhh!  
easily hackable.

There is also a semi-pro windows version available, but I've never used it,  
and I believe the author has now upgraded for 95 also, and come away from shareware as a distribution method for the windows versions.

I guess he figures if he can get a few to buy the old DOS version at around \$85 / £34.9 then he can afford to give the demos away so easily hackable, and perhaps encourage you to update to the newer win versions!

72 & 73 de Mel  
GM6JAG  
EDINBURGH, Scotland UK  
Home of the last HW9

-----  
Date: Wed, 21 Jan 1998 15:26:42 EST  
From: RangerSF5 <RangerSF5@aol.com>  
To: rakefet@rakefet.com, qrp-1@Lehigh.EDU  
Subject: [1604] Re: help getting started  
Message-ID: <a0b31af3.34c65a04@aol.com>  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

In a message dated 98-01-21 11:23:10 EST, you write:

<< Subj: Re: help getting started  
Date: 98-01-21 11:23:10 EST  
From: rakefet@rakefet.com (Vic Rosenthal)  
Sender: owner-qrp-1@Lehigh.EDU  
Reply-to: rakefet@rakefet.com  
To: qrp-1@Lehigh.EDU (Low Power Amateur Radio Discussion)

eakwik@mail.hac.com wrote:

- > 2. Would it be more cost effective to abandon the HW7 and look for a
- > used transceiver or qrp kit?

I'm going to get flamed for this, but: By today's standards, the HW7 is a piece of J-U-N-K, of historical interest only (I know, everyone will be telling me how they worked VK0IR on theirs). There are QRP kits available, like the OHR100a or the TenTec that are a MILLION (that's 1,000,000) times better. They are easier to build than the HW7 was. Cheap, too. I see slightly older versions available here for even less every day. Get one!

I'll let the others answer the other questions. I've incurred my week's portion of wrath already.

Vic K2VCO >>

I like to drop in my half cent worth.

Well the HW 7 & HW 8 have a lot of mods to improve them. The bad thing about the two rigs are the DC receivers.

Now getting back to the kits on the market today the OHR 100-A is a nice rig, however I can't understand why they use a 10K pot for a VFO.

A lot of people knock the MFJ and for what it is, it's a tad bit on the high side as far as price goes. But it has a real VFO and covers the entire band and that allows me to work out of the crowded qrp sections.

I'll be doing a lot of test between the two rigs and keep everyone posted on my findings. At this time, I think the MFJ will out do the OHR 100-A

Bob WA2HOQ #1437

-----  
Date: Wed, 21 Jan 1998 15:41:00 EST  
From: K5BDZ <K5BDZ@aol.com>  
To: g3rjv@gqrp.demon.co.uk, qrp-1@Lehigh.EDU  
Subject: [1605] Re: Dayton Rooms  
Message-ID: <86b6be62.34c65d5e@aol.com>  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

George

At the expense of sounding like a Southern Fundamental Baptist tent revival.....AMEN!

Bill, K5BDZ

-----  
Date: Wed, 21 Jan 98 13:53:45 PST  
From: Charlie Panek <charlier@lsid.hp.com>  
To: qrp-1@Lehigh.EDU  
Cc: charlier@lsid.hp.com

Subject: [1606] Easy audio filtering for the Pixie  
Message-ID: <199801212153.AA033989625@labcrp.lsid.hp.com>

I recently threw together a Pixie to play with, and put it on 20 meters (but that's another story). Haven't had a QSO with it yet (last weekend was one of \*those\* weekends..), but I did get to listen a bit, and geez, I guess I've been spoiled by good crystal filters. What with all the digital stuff going on up several kHz, and rag chews down around 14.050, I had quite an earful!

I got to looking at the datasheet for the LM386, and a little circuit labelled "Audio Amp with Bass Boost" got me thinking that it would be easy to add some filtering to the thing.

So it's as simple as this:

- Change the 10uF cap between pins 1 and 8 to 4.7uF.  
(This puts the low freq -3dB point at about 200 Hz)
- Put a 2k ohm resistor and a 6800 pF cap in series, and wire the unconnected ends between pins 1 and 5 (the output). This rolls off the high frequency gain. The upper -3dB point is about 1.6 kHz
- I also tried reducing the output coupling cap from 10uF 1 uF. This reduces the gain below 200Hz, but the value you need will depend upon your load (I had 500 ohm headphones.)

The result is still no 6 pole crystal filter, but it's an improvement, and doesn't complicate the rig very much. The center freq of the resulting "filter" is about 600 Hz. If that's too low for you, try a 2.2 uF cap between pins 1 & 8 and reduce the 6800pF cap to 4700 pF.

--

|                             |                         |
|-----------------------------|-------------------------|
| Charlie Panek               | Hewlett Packard Company |
| mailto:charlier@lsid.hp.com | Lake Stevens Division   |
|                             | Everett, Washington     |

-----  
Date: Wed, 21 Jan 1998 16:13:25 -0500  
From: "N4ELM" <n4elm@ipass.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [1607] FS: QRP Stuff  
Message-ID: <199801212217.RAA14567@earth.ipass.net>

MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

QRP Stuff For Sale:

MFJ-9020 20 Meter CW transceiver  
with optional audio filter and keyer modules and manual  
\$140.00 obo + shipping

Ten-Tec Century 21 CW HF Transceiver  
80 - 10 meters, 35 watts output (adjustable)  
Direct Conversion receiver with CW audio filter  
Power Supply built in  
Good Condition- everything works. PTO rebuilt.  
Slight nicks on case, extremely clean front panel  
with KR-5A keyer/paddle, photocopy manual  
\$200.00 OBO + shipping

Not exactly QRP:

Complete Lowe HF-150 Shortwave Station.  
\$1000.00 firm. E-mail for details.

73 - Dave, N4ELM  
(If more than two constitutes a collection,  
then my basement must be a museum.)

-----  
Date: Wed, 21 Jan 1998 16:25:15 -0600 (CST)  
From: jdenison@morelr.com (JOEL DENISON)  
To: qrp-1@Lehigh.EDU  
Subject: [1608] kl7jaf where are u ????  
Message-ID: <199801212225.QAA03993@m20.morelr.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Lost u in the qrm/qrn/qsb

I heard a good signal I could copy that went all to wherever they go when  
you came back. I got the 559 rpt and I think u said 3 watts.



Send me an e-mail direct and maybe we can connect on forty meters or even eighty. either one would be great and a first from this qth....

72 Joel

God Bless

Joel

WA5CVM

Joel Denison

PO BOX 542

Strong, Maine 04983

jdenison@morelr.com

Gentle Lady (RC Sail Plane)(049 engine - start)

80 mtr dipole up 50ft

QRP ARCI 4066 NEW ENGLAND QRP 476 QRP-L 765

AK/QRP 109

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Date: Wed, 21 Jan 1998 16:41:10 -0600

From: Ed Manuel <n5em@flash.net>

To: ki6ds@dpol.k12.ca.us

Cc: qrp-l@Lehigh.EDU

Subject: [1609] Re: FDIM

Message-ID: <3.0.5.32.19980121164110.008533a0@pop.flash.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Doug, You will NOT need raingear this year. Please repeat, "We will not need raingear this year." You are tasked with saying this 72 times each day until Dayton, '98.

Ed, N5EM

>But Bob, I still want Dayton Weather Reports, I gotta figure out if I need

>extra rain gear!! 72, Doug, KI6DS

>

>

>

>

Ed Manuel, N5EM

n5em@amsat.org

n5em@flash.net

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Date: Wed, 21 Jan 1998 14:59:26 -0800  
From: Charlie Panek <charlier@lsid.hp.com>  
To: qrp-l@Lehigh.EDU  
Cc: charlier@lsid.hp.com  
Subject: [1610] Re: Pixie on 30m?  
Message-ID: <34C67DCE.A6C@lsid.hp.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Bill Acito 19-Jan-1998 1302 (acito@asdg.ENABLE.dec.com)

>  
>       Anyone put a Pixie on 30m? Can I assume I can go into the  
>       ARRL Handbook and pull out a standard 10Mhz Pi filter for the  
>       output?  
>  
>       b

No, but I put one on 20m. Just scaling the output network components by frequency seemed to be about right. (i.e. scale the C's and L's down as frequency goes up: by 7/10 in your case.) I used 220 pF for C6, 330 pF for C7 and 0.56 uH for L3. Again, that was for 20 meters.

I also scaled L1, the choke for Q2, but that probably wasn't too necessary.

I also added VXO capability to the rig. This consisted of a 5.6uH molded choke, in series with a 60 pF trimmer cap, both in series with the ground leg of the crystal. I got about 12 kHz of tuning range on 20m (14.050 - 14.062), but there was a downside; This mod reduced the output level of the oscillator slightly, resulting in an output power from the rig of only 50 mW. QRPp is fine, but that's just too low for me! A couple of things will raise the output; First of all Reducing R2 (the oscillator emitter resistor) to 200 ohms brought the oscillator output back up to where it was. I was still seeing less than 200 mW though, so I replaced the 2N3904 at Q2 with a 2N3866A that I had lying about, and changed L3 (the output filter inductor) from a molded choke to a powdered iron toroid (12T on T-37-2). Now power out was around 350 mW. (1/2 watt at 13V) Much better!

Another big problem I had was with BC interference. I was hearing the local AM Christian Music station louder than even the RTTY stations on 20! Rather than re-design the output filter, I tried the following simple fix: 12 turns on a T-30-6 core, with a 200pF cap

across those 12 turns. Then I wound a "secondary" of 3 turns which I connected right across the antenna terminals. The BC interference disappeared, with the added bonus of knocking down the 2nd harmonic of the transmit signal another 10 dB or so.

Charlie  
KX7L

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|                             |                         |
|-----------------------------|-------------------------|
| Charlie Panek               | Hewlett Packard Company |
| mailto:charlier@lsid.hp.com | Lake Stevens Division   |
|                             | Everett, Washington     |

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Date: Wed, 21 Jan 1998 17:54:24 EST  
From: K5BDZ <K5BDZ@aol.com>  
To: charlier@lsid.hp.com, qrp-1@Lehigh.EDU  
Subject: [1611] Re: Easy audio filtering for the Pixie  
Message-ID: <f4307104.34c67ca3@aol.com>  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Charlie

Thanks for this great post. Hope many make copies or at least make notes for their future '386 amps.  
Bill, K5BDZ

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Date: Wed, 21 Jan 1998 16:24:53 -0700  
From: Andy Fox <foxes@theriver.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [1612] Battery Charging Info  
Message-ID: <34C683C5.4C08CF76@theriver.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi,

I've seen several posts lately about circuits that will disconnect a load when the battery voltage drops to a certain level. I stumbled across such a circuit. WB0RIO sells a board, kit or fully assembled unit that performs the Low Voltage Disconnect (LVD) function. It is also a charge controller, for use between a photovoltaic (solar

electric) module and the battery.

Here's the URL:

<http://www.eklektix.com/solar/>

The charge controller circuit is featured in Home Power #63, available online at:

<http://www.homepower.com/>

The LVD circuit was featured in issue #60. It looks like that issue is presently available only in hard copy.

72/73

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Andy Fox, KK7HV  
mailto:foxes@theriver.com  
<http://personal.riverusers.com/~foxes/>  
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End of QRP-L Digest 977

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